

## Datasheet: MCA628GA

|                      |                             |
|----------------------|-----------------------------|
| <b>Description:</b>  | MOUSE ANTI BOVINE/OVINE IgA |
| <b>Specificity:</b>  | IgA                         |
| <b>Format:</b>       | Purified                    |
| <b>Product Type:</b> | Monoclonal Antibody         |
| <b>Clone:</b>        | K84 2F9                     |
| <b>Isotype:</b>      | IgG1                        |
| <b>Quantity:</b>     | 0.1 mg                      |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ■              |                    |
| Immunohistology - Frozen   |     |    | ■              |                    |
| Immunohistology - Paraffin |     |    | ■              |                    |
| ELISA                      | ■   |    |                | 1/5000 - 1/80,000  |
| Immunoprecipitation        |     |    | ■              |                    |
| Western Blotting           |     |    | ■              |                    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                       |                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Bovine                                                                                                 |
| <b>Species Cross Reactivity</b>       | Reacts with: Sheep<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. |
| <b>Product Form</b>                   | Purified IgG - liquid                                                                                  |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant          |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                              |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                 |
| <b>Carrier Free</b>                   | Yes                                                                                                    |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml                                                                            |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>       | Bovine IgA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Fusion Partners</b> | Spleen cells from immunised mice were fused with cells of the P3.X63.Ag8.653 myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Specificity</b>     | <b>Mouse anti Bovine IgA antibody, clone K84 2F9</b> recognizes bovine and ovine IgA. No cross reactivity is observed with Bovine or Ovine IgG and IgM,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>References</b>      | <ol style="list-style-type: none"> <li>1. Estes, D.M. <i>et al.</i> (1998) Effects of type I/type II interferons and transforming growth factor-beta on B-cell differentiation and proliferation. Definition of costimulation and cytokine requirements for immunoglobulin synthesis and expression. <a href="#">Immunology. 95 (4): 604-11.</a></li> <li>2. Surraud, V. <i>et al.</i> (2008) Acute infection by conjunctival route with <i>Brucella melitensis</i> induces IgG+ cells and IFN-gamma producing cells in peripheral and mucosal lymph nodes in sheep. <a href="#">Microbes Infect. 10: 1370-8.</a></li> <li>3. Hassan, M. <i>et al.</i> (2011) The dynamic influence of the DRB1*1101 allele on the resistance of sheep to experimental <i>Teladorsagia circumcincta</i> infection. <a href="#">Vet Res. 42: 46.</a></li> <li>4. Tzelos, T. <i>et al.</i> (2016) A preliminary proteomic characterisation of extracellular vesicles released by the ovine parasitic nematode, <i>Teladorsagia circumcincta</i> <a href="#">Veterinary Parasitology. Mar 17 [Epub ahead of print]</a></li> <li>5. Stanley AC <i>et al.</i> (2004) Intranasal immunisation with <i>Toxoplasma gondii</i> tachyzoite antigen encapsulated into PLG microspheres induces humoral and cell-mediated immunity in sheep. <a href="#">Vaccine. 22 (29-30): 3929-41.</a></li> <li>6. McNeilly, T.N. <i>et al.</i> (2007) Simple methods for measurement of bovine mucosal antibody responses <i>in vivo</i>. <a href="#">Vet Immunol Immunopathol. 118 (1-2): 160-7.</a></li> <li>7. McNeilly, T.N. <i>et al.</i> (2010) IgA and IgG antibody responses following systemic immunization of cattle with native H7 flagellin differ in epitope recognition and capacity to neutralise TLR5 signalling. <a href="#">Vaccine. 28 (5): 1412-21.</a></li> <li>8. McNeilly, T.N. <i>et al.</i> (2010) Immunization of cattle with a combination of purified intimin-531, EspA and Tir significantly reduces shedding of <i>Escherichia coli</i> O157:H7 following oral challenge. <a href="#">Vaccine. 28 (5): 1422-8.</a></li> <li>9. Surraud, V. <i>et al.</i> (2007) Differential expression of homing receptors and vascular addressins in tonsils and draining lymph nodes: Effect of <i>Brucella</i> infection in sheep. <a href="#">Vet Immunol Immunopathol. 115 (3-4): 239-50.</a></li> <li>10. Mahajan, A. <i>et al.</i> (2005) Phenotypic and functional characterisation of follicle-associated epithelium of rectal lymphoid tissue. <a href="#">Cell Tissue Res. 321 (3): 365-74.</a></li> <li>11. Parreño, V.<i>et al.</i> (2004) Modulation by colostrum-acquired maternal antibodies of systemic and mucosal antibody responses to rotavirus in calves experimentally challenged with bovine rotavirus. <a href="#">Vet Immunol Immunopathol. 100 (1-2): 7-24.</a></li> <li>12. Mahajan, A. <i>et al.</i> (2009) An investigation of the expression and adhesin function of H7 flagella in the interaction of <i>Escherichia coli</i> O157 : H7 with bovine intestinal epithelium. <a href="#">Cell Microbiol. 11 (1): 121-37.</a></li> <li>13. McNeilly, T.N. <i>et al.</i> (2013) Suppression of ovine lymphocyte activation by <i>Teladorsagia circumcincta</i> larval excretory-secretory products. <a href="#">Vet Res. 44: 70.</a></li> <li>14. Nisbet, A. J. <i>et al.</i> (2016) Protection of ewes against <i>Teladorsagia circumcincta</i> infection in the periparturient period by vaccination with recombinant antigens <a href="#">Veterinary Parasitology. 228: 130-6.</a></li> </ol> |
| <b>Storage</b>         | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Shelf Life</b>      | 18 months from date of despatch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

|                                         |                                                                                                                                                                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>                                                                                                                                                                                                                 |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>                                                                                                                                                                                    |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®549</a> ,<br><a href="#">DyLight®649</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>                                                                                                                                                                                                                |
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>                                                                                                                                                                                                                 |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>                                                                                                                                                                                                                 |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>                                                                                                                                                                                          |
| Rabbit Anti Mouse IgG (STAR8...)        | <a href="#">DyLight®800</a>                                                                                                                                                                                                         |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>                                                                                                                                                                                                                |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>                                                                                                                                                                                                                 |
| Human Anti Mouse IgG1 (HCA036...)       | <a href="#">HRP</a>                                                                                                                                                                                                                 |

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

### Recommended Useful Reagents

[MOUSE ANTI SHEEP IgE \(MCA5941GA\)](#)  
[MOUSE ANTI BOVINE IgG1 \(MCA627GA\)](#)  
[MOUSE ANTI BOVINE IgA \(MCA2438GA\)](#)  
[MOUSE ANTI BOVINE IgA:HRP \(MCA2438P\)](#)  
[MOUSE ANTI BOVINE IgG \(MCA2439GA\)](#)  
[MOUSE ANTI BOVINE IgG:HRP \(MCA2439P\)](#)  
[MOUSE ANTI BOVINE IgG1 \(MCA2440GA\)](#)  
[MOUSE ANTI BOVINE IgG1:HRP \(MCA2440P\)](#)  
[MOUSE ANTI BOVINE IgG2 \(MCA2441GA\)](#)  
[MOUSE ANTI BOVINE IgG2:HRP \(MCA2441P\)](#)  
[MOUSE ANTI BOVINE IgM \(MCA2443GA\)](#)

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