

## Datasheet: MCA1014F

|                      |                            |
|----------------------|----------------------------|
| <b>Description:</b>  | MOUSE ANTI MOUSE CD44:FITC |
| <b>Specificity:</b>  | CD44                       |
| <b>Other names:</b>  | H-CAM, PGP-1               |
| <b>Format:</b>       | FITC                       |
| <b>Product Type:</b> | Monoclonal Antibody        |
| <b>Clone:</b>        | 5035-41.1D                 |
| <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 | ■   |    |                | Neat               |

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

|                                |                                                                                               |                     |                   |
|--------------------------------|-----------------------------------------------------------------------------------------------|---------------------|-------------------|
| Target Species                 | Mouse                                                                                         |                     |                   |
| Product Form                   | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid                |                     |                   |
| Max Ex/Em                      | Fluorophore                                                                                   | Excitation Max (nm) | Emission Max (nm) |
|                                | FITC                                                                                          | 490                 | 525               |
| Preparation                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |                     |                   |
| Buffer Solution                | Phosphate buffered saline                                                                     |                     |                   |
| Preservative                   | 0.09% Sodium Azide                                                                            |                     |                   |
| Stabilisers                    | 1%    Bovine Serum Albumin                                                                    |                     |                   |
| Approx. Protein Concentrations | IgG concentration 0.1mg/ml                                                                    |                     |                   |
| Immunogen                      | Spleen cells from B6PL-Ly-2a / Ly-3a B6-Ly-1a mice.                                           |                     |                   |
| External Database Links        | UniProt:<br><a href="#">P15379</a> <a href="#">Related reagents</a>                           |                     |                   |

**Entrez Gene:**[12505](#) Cd44 [Related reagents](#)

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                      | Ly-24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Fusion Partners</b>               | Spleen cells from immunized mice were fused with cells of the mouse P3-NS1-1-Ag4 myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Specificity</b>                   | <p><b>Mouse anti Human CD44 antibody, clone 5035-41.1D</b>90% bone marrow cells and spleen cells, 56% of thymus cells and 90% of lymph node cells.</p> <p>Mouse anti Human CD44 antibody, clone 5035-41.1D recognises the following strains of mice:- C57BL/6, C57BL/10, C57/L, C58A, AKR, 129, SJL, NZB, C3H, CE, CBA/H.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Flow Cytometry</b>                | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>References</b>                    | <ol style="list-style-type: none"><li>1. Sutton, V.R. <i>et al.</i> (1987) Genetic and biochemical characterization of antigens encoded by the Ly24 (Pgp-1) locus. <a href="#">J. Immunogenetics 14: 43-57.</a></li><li>2. Ariel, A. <i>et al.</i> (2001) Cell surface-expressed moesin-like receptor regulates T cell interactions with tissue components and binds an adhesion-modulating IL-2 peptide generated by elastase. <a href="#">J Immunol. 166: 3052-60.</a></li><li>3. Ishizuka, T. <i>et al.</i> (2011) Superoxide induced by a high-glucose concentration attenuates production of angiogenic growth factors in hypoxic mouse mesenchymal stem cells. <a href="#">J Endocrinol. 208: 147-59.</a></li><li>4. Qian, K. <i>et al.</i> (2015) Effects of Tanshinone IIA on osteogenic differentiation of mouse bone marrow mesenchymal stem cells. <a href="#">Naunyn Schmiedeberg's Arch Pharmacol. 388 (11): 1201-9.</a></li></ol> |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

'M305259:170426'

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
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