

## Datasheet: MCA506G

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | RAT ANTI HUMAN CD235a |
| <b>Specificity:</b>  | CD235a                |
| <b>Other names:</b>  | GLYCOPHORIN A         |
| <b>Format:</b>       | Purified              |
| <b>Product Type:</b> | Monoclonal Antibody   |
| <b>Clone:</b>        | YTH89.1               |
| <b>Isotype:</b>      | IgG2b                 |
| <b>Quantity:</b>     | 0.2 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             | ■   |    |                | 1/10 - 1/25        |
| Immunohistology - Frozen   | ■   |    |                | 1/100 - 1/1000     |
| Immunohistology - Paraffin | ■   |    |                | 1/100 - 1/1000     |
| ELISA                      |     |    | ■              |                    |
| Immunoprecipitation        |     |    | ■              |                    |
| Western Blotting           |     |    | ■              |                    |
| Cytotoxic Assays           | ■   |    |                |                    |

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.

|                                       |                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Target Species</b>                 | Human                                                                                         |
| <b>Product Form</b>                   | Purified IgG - liquid                                                                         |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                     |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide                                                                            |
| <b>Carrier Free</b>                   | Yes                                                                                           |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1 mg/ml                                                                     |
| <b>External Database</b>              | <b>UniProt:</b>                                                                               |

**Links**[P02724](#)   [Related reagents](#)**Entrez Gene:**[2993](#)   GYP A   [Related reagents](#)**Synonyms**

GPA

**Fusion Partners**

Spleen cells from immunized DA rats were fused with cells of the Y3/Ag.1.2.3.

**Specificity****Rat anti Human CD235a antibody, clone YTH89.1** recognizes glyophorin A, a major sialoglycoprotein of the human erythrocyte membrane.**Immunohistology**

This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.

**Histology Positive Control Tissue**

Human hypophysis

**References**

1. Outram, S. *et al.* (1988) Erythromyeloid lineage fidelity is conserved in erythroleukaemia. [Leuk Res. 12 \(8\): 651-7.](#)
2. Jokiranta, T.S. & Meri, S. (1993) Biotinylation of monoclonal antibodies prevents their ability to activate the classical pathway of complement. [J Immunol. 151 \(4\): 2124-31.](#)
3. Basu, S. (2010) Erythrocyte membrane defects and asymmetry in paroxysmal nocturnal hemoglobinuria and myelodysplastic syndrome. [Hematology. 15: 236-9.](#)
4. Hoang, T. *et al.* (1996) Opposing effects of the basic helix-loop-helix transcription factor SCL on erythroid and monocytic differentiation. [Blood. 87: 102-11.](#)
5. Lahlii, R. *et al.* (2004) SCL assembles a multifactorial complex that determines glyophorin A expression. [Mol Cell Biol. 24: 1439-52.](#)
6. Tiziani, S. *et al.* (2009) Metabolomic profiling of drug responses in acute myeloid leukaemia cell lines. [PLoS One. 2009;4\(1\):e4251.](#)
7. Saha, S. *et al.* (2011) Elevated levels of redox regulators, membrane-bound globin chains, and cytoskeletal protein fragments in hereditary spherocytosis erythrocyte proteome. [Eur J Haematol. 87: 259-66.](#)
8. Challier, J.C. *et al.* (2005) Immunocytological evidence for hematopoiesis in the early human placenta. [Placenta. 26: 282-8.](#)
9. Huang, Y.C. *et al.* (2009) Oral small-molecule tyrosine kinase inhibitor midostaurin (PKC412) inhibits growth and induces megakaryocytic differentiation in human leukemia cells. [Toxicol In Vitro. 23: 979-85.](#)
10. Lucky AB *et al.* (2016) Plasmodium knowlesi Skeleton-Binding Protein 1 Localizes to the 'Sinton and Mulligan' Stipplings in the Cytoplasm of Monkey and Human Erythrocytes. [PLoS One. 11 \(10\): e0164272.](#)
11. Babiker, A.A. *et al.* (2002) Transfer of prostasomal CD59 to CD59-deficient red blood cells results in protection against complement-mediated hemolysis. [Am J Reprod Immunol. 47 \(3\): 183-92.](#)

**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

|                                      |                                                                                                                                                                                                          |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                         |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at:<br>10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                               |

## Related Products

### Recommended Secondary Antibodies

|                                                |                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------|
| Rabbit Anti Rat IgG (STAR16...)                | <a href="#">DyLight®800</a>                                                             |
| Goat Anti Rat IgG (STAR73...)                  | <a href="#">RPE</a>                                                                     |
| Rabbit Anti Rat IgG (STAR21...)                | <a href="#">HRP</a>                                                                     |
| Rabbit Anti Rat IgG (STAR17...)                | <a href="#">FITC</a>                                                                    |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | <a href="#">DyLight®549</a> , <a href="#">DyLight®649</a> , <a href="#">DyLight®800</a> |
| Goat Anti Rat IgG (STAR131...)                 | <a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>                                     |
| Goat Anti Rat IgG (STAR69...)                  | <a href="#">FITC</a>                                                                    |
| Goat Anti Rat IgG (STAR72...)                  | <a href="#">HRP</a>                                                                     |

### Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL \(MCA6006GA\)](#)

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
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'M316065:180503'

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