

## Datasheet: MCA506SBB700

<b>Description:</b>	RAT ANTI HUMAN CD235a:StarBright Blue 700
<b>Specificity:</b>	CD235a
<b>Other names:</b>	GLYCOPHORIN A
<b>Format:</b>	StarBright Blue 700
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YTH89.1
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 TESTS/0.5ml

### 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 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.

#### Target Species

Human

#### Product Form

Purified IgG conjugated to StarBright Blue 700 - liquid

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
StarBright Blue 700	473	703

#### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
 1% Bovine Serum Albumin  
 0.1% Pluronic F68  
 0.1% PEG 3350  
 0.05% Tween 20

<b>Approx. Protein Concentrations</b>	For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P02724</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2993</a>    GYPA    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	GPA
<b>Fusion Partners</b>	Spleen cells from immunized DA rats were fused with cells of the Y3/Ag.1.2.3.
<b>Specificity</b>	<b>Rat anti Human CD235a antibody, clone YTH89.1</b> recognizes glycoporphin A, a major sialoglycoprotein of the human erythrocyte membrane.
<b>Flow Cytometry</b>	Use 5µl of the suggested working dilution to label 0.5x10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Outram, S. <i>et al.</i> (1988) Erythromyeloid lineage fidelity is conserved in erythroleukaemia. <a href="#">Leuk Res. 12 (8): 651-7.</a></li> <li>2. Jokiranta, T.S. &amp; Meri, S. (1993) Biotinylation of monoclonal antibodies prevents their ability to activate the classical pathway of complement. <a href="#">J Immunol. 151 (4): 2124-31.</a></li> <li>3. Hoang, T. <i>et al.</i> (1996) Opposing effects of the basic helix-loop-helix transcription factor SCL on erythroid and monocytic differentiation. <a href="#">Blood. 87: 102-11.</a></li> <li>4. Babiker, A.A. <i>et al.</i> (2002) Transfer of prostasomal CD59 to CD59-deficient red blood cells results in protection against complement-mediated hemolysis. <a href="#">Am J Reprod Immunol. 47 (3): 183-92.</a></li> <li>5. Lahlil, R. <i>et al.</i> (2004) SCL assembles a multifactorial complex that determines glycoporphin A expression. <a href="#">Mol Cell Biol. 24: 1439-52.</a></li> <li>6. Challier, J.C. <i>et al.</i> (2005) Immunocytological evidence for hematopoiesis in the early human placenta. <a href="#">Placenta. 26: 282-8.</a></li> <li>7. Huang, Y.C. <i>et al.</i> (2009) Oral small-molecule tyrosine kinase inhibitor midostaurin (PKC412) inhibits growth and induces megakaryocytic differentiation in human leukemia cells. <a href="#">Toxicol In Vitro. 23: 979-85.</a></li> <li>8. Tiziani, S. <i>et al.</i> (2009) Metabolomic profiling of drug responses in acute myeloid leukaemia cell lines. <a href="#">PLoS One. 2009;4(1):e4251.</a></li> <li>9. Basu, S. (2010) Erythrocyte membrane defects and asymmetry in paroxysmal nocturnal hemoglobinuria and myelodysplastic syndrome. <a href="#">Hematology. 15: 236-9.</a></li> <li>10. Saha, S. <i>et al.</i> (2011) Elevated levels of redox regulators, membrane-bound globin chains, and cytoskeletal protein fragments in hereditary spherocytosis erythrocyte proteome. <a href="#">Eur J Haematol. 87: 259-66.</a></li> <li>11. Lucky AB <i>et al.</i> (2016) Plasmodium knowlesi Skeleton-Binding Protein 1 Localizes to the 'Sinton and Mulligan' Stipplings in the Cytoplasm of Monkey and Human Erythrocytes. <a href="#">PLoS One. 11 (10): e0164272.</a></li> <li>12. Scanlon, V.M. <i>et al.</i> (2022) Multiparameter analysis of timelapse imaging reveals kinetics of megakaryocytic erythroid progenitor clonal expansion and differentiation. <a href="#">Sci</a></li> </ol>

---

<b>Storage</b>	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA506SBB700">https://www.bio-rad-antibodies.com/SDS/MCA506SBB700</a>
<b>Regulatory</b>	For research purposes only

---

## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M449050:260123'

**Printed on 23 Jan 2026**