

Datasheet: MCA506SBV440

Description:	RAT ANTI HUMAN CD235a:StarBright Violet 440
Specificity:	CD235a
Other names:	GLYCOPHORIN A
Format:	StarBright Violet 440
Product Type:	Monoclonal Antibody
Clone:	YTH89.1
Isotype:	IgG2b
Quantity:	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.

	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 Violet 440 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 440	383	436
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 ₃) 1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20		

Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
External Database Links	<p>UniProt: P02724 Related reagents</p> <p>Entrez Gene: 2993 GYPA Related reagents</p>
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 glycoporphin A, a major sialoglycoprotein of the human erythrocyte membrane.
Flow Cytometry	Use 5µl of the suggested working dilution to label 0.5x10 ⁶ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
References	<ol style="list-style-type: none"> 1. Outram, S. <i>et al.</i> (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. Hoang, T. <i>et al.</i> (1996) Opposing effects of the basic helix-loop-helix transcription factor SCL on erythroid and monocytic differentiation. Blood. 87: 102-11. 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. Am J Reprod Immunol. 47 (3): 183-92. 5. Lahlil, R. <i>et al.</i> (2004) SCL assembles a multifactorial complex that determines glycoporphin A expression. Mol Cell Biol. 24: 1439-52. 6. Challier, J.C. <i>et al.</i> (2005) Immunocytological evidence for hematopoiesis in the early human placenta. Placenta. 26: 282-8. 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. Toxicol In Vitro. 23: 979-85. 8. Tiziani, S. <i>et al.</i> (2009) Metabolomic profiling of drug responses in acute myeloid leukaemia cell lines. PLoS One. 2009;4(1):e4251. 9. Basu, S. (2010) Erythrocyte membrane defects and asymmetry in paroxysmal nocturnal hemoglobinuria and myelodysplastic syndrome. Hematology. 15: 236-9. 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. Eur J Haematol. 87: 259-66. 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. PLoS One. 11 (10): e0164272. 12. Scanlon, V.M. <i>et al.</i> (2022) Multiparameter analysis of timelapse imaging reveals kinetics of megakaryocytic erythroid progenitor clonal expansion and differentiation. Sci

Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA506SBV440
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

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

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

Product inquiries: 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
'M449059:260123'

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