

Datasheet: MCA506PE

Description:	RAT ANTI HUMAN CD235a:RPE
Specificity:	CD235a
Other names:	GLYCOPHORIN A
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	YTH89.1
Isotype:	IgG2b
Quantity:	100 TESTS

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 - 1/10

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	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
	5% Sucrose		
External Database Links	UniProt:		

Entrez Gene:

Synonyms	GPA
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RRID	AB_323253
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Fusion Partners	Spleen cells from immunized DA rats were fused with cells of the Y3/Ag.1.2.3.
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Specificity	Rat anti Human CD235a antibody, clone YTH89.1 recognizes glycophorin A, a major sialoglycoprotein of the human erythrocyte membrane.
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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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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. Basu, S. (2010) Erythrocyte membrane defects and asymmetry in paroxysmal nocturnal hemoglobinuria and myelodysplastic syndrome. Hematology. 15: 236-9.4. 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: 102-11.5. Lahliil, R. <i>et al.</i> (2004) SCL assembles a multifactorial complex that determines glycophorin A expression. Mol Cell Biol. 24: 1439-52.6. Tiziani, S. <i>et al.</i> (2009) Metabolomic profiling of drug responses in acute myeloid leukaemia cell lines. PLoS One. 2009;4(1):e4251.7. 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: 259-66.8. Challier, J.C. <i>et al.</i> (2005) Immunocytological evidence for hematopoiesis in the early human placenta. Placenta. 26: 282-8.9. 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: 979-85.10. 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): e0164272.11. 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.
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Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. This product should be stored undiluted. DO NOT FREEZE. This product is photosensitive and should be protected from light.
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Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #20487 available at: 20487: https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL:RPE \(MCA6006PE\)](#)

Recommended Useful Reagents

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

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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Printed on 22 Mar 2021