

Datasheet: MCA506A647T

BATCH NUMBER 165899

Description:	RAT ANTI HUMAN CD235a:Alexa Fluor® 647		
Specificity:	CD235a		
Other names:	GLYCOPHORIN A		
Format:	ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	YTH89.1		
Isotype:	lgG2b		
Quantity:	25 TESTS/0.25ml		

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 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.

Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid			
Max Ex/Em	Fluorophore Excitation Max (nm) Emission Max (ni			
	Alexa Fluor®647	650	665	
D				
Preparation	Purified IgG prepared supernatant	by affinity chromatogo	raphy on Protein G	
Preparation Buffer Solution	•		raphy on Protein G	
Buffer Solution Preservative	supernatant		raphy on Protein G	
Buffer Solution	supernatant Phosphate buffered sa	aline	raphy on Protein G	

Concentrations

atabase

UniProt:

P02724 Related reagents

Entrez Gene:

2993 GYPA Related reagents

RRID AB_1101583 Fusion Partners Spleen cells from immunized DA rats were fused with cells of the Y3/Ag.1.2.3.	2.3.
Synonyms GPA	

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

sialoglycoprotein of the human erythrocyte membrane.

References

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- 2. Jokiranta, T.S. & Meri, S. (1993) Biotinylation of monoclonal antibodies prevents their ability to activate the classical pathway of complement. <u>J Immunol</u>. 151 (4): 2124-31.
- 3. Hoang, T. *et al.* (1996) Opposing effects of the basic helix-loop-helix transcription factor SCL on erythroid and monocytic differentiation. <u>Blood. 87: 102-11.</u>
- 4. Babiker, A.A. *et al.* (2002) Transfer of prostasomal CD59 to CD59-deficient red blood cells results in protection against complement-mediated hemolysis. <u>Am J Reprod Immunol.</u> 47 (3): 183-92.
- 5. Lahlil, R. *et al.* (2004) SCL assembles a multifactorial complex that determines glycophorin A expression. <u>Mol Cell Biol. 24: 1439-52.</u>
- 6. Challier, J.C. *et al.* (2005) Immunocytological evidence for hematopoiesis in the early human placenta. <u>Placenta. 26: 282-8.</u>
- 7. Huang, Y.C. *et al.* (2009) Oral small-molecule tyrosine kinase inhibitor midostaurin (PKC412) inhibits growth and induces megakaryocytic differentiation in human leukemia cells. <u>Toxicol In Vitro. 23: 979-85.</u>
- 8. Tiziani, S. *et al.* (2009) Metabolomic profiling of drug responses in acute myeloid leukaemia cell lines. <u>PLoS One. 2009;4(1):e4251.</u>
- 9. Basu, S. (2010) Erythrocyte membrane defects and asymmetry in paroxysmal nocturnal hemoglobinuria and myelodysplastic syndrome. <u>Hematology</u>. 15: 236-9.
- 10. Saha, S. *et al.* (2011) Elevated levels of redox regulators, membrane-bound globin chains, and cytoskeletal protein fragments in hereditary spherocytosis erythrocyte proteome. <u>Eur J Haematol. 87: 259-66.</u>
- 11. 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.
- 12. Scanlon, V.M. *et al.* (2022) Multiparameter analysis of timelapse imaging reveals kinetics of megakaryocytic erythroid progenitor clonal expansion and differentiation. <u>Sci</u>

Rep. 12 (1): 16218.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA506A647T

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL:Alexa Fluor® 647 (MCA6006A647)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

America

North & South Tel: +1 800 265 7376 Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M385745:210513'

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