

Datasheet: MCA506A647

### **BATCH NUMBER 165926**

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:	100 TESTS/1ml	

## **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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 conjugate	ed to Alexa Fluor® 64	7 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	Alexa Fluor®647	650	665
<b>D</b>			
Preparation	Purified IgG prepared supernatant	by affinity chromatogi	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

External	Database
Links	

UniProt:

P02724 Related reagents

**Entrez Gene:** 

2993 GYPA Related reagents

Synonyms	GPA
RRID	AB_566660
Fusion Partners	Spleen cells from immunized DA rats were fused with cells

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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 glycophorin A, a major sialoglycoprotein of the human erythrocyte membrane.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul.

#### References

- 1. Outram, S. *et al.* (1988) Erythromyeloid lineage fidelity is conserved in erythroleukaemia. <u>Leuk Res. 12 (8): 651-7.</u>
- 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. Mol Cell Biol. 24: 1439-52.
- 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/MCA506A647

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 'M385896:210513'

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