

APC/Cyanine7 anti-human CD235a (Glycophorin A) Antibody

Catalog# / Size	349115 / 25 tests 349116 / 100 tests
Clone	HI264
Regulatory Status	RUO
Workshop	VII 70312
Other Names	PAS-2, Sialoglycoprotein alpha, MN sialoglycoprotein, Glycophorin A, MNS blood group
Isotype	Mouse IgG2a, κ
Description	CD235a (Glycophorin A) is member of the glycophorin A family. It is a type I sialoglycoprotein with a molecular weight of 10 kD, present in the cell membrane as a homodimer. Glycophorin A is expressed by erythroid precursors and erythrocytes. It carries the antigen determinants for the MNS blood groups and has been proposed to be an inhibitor of hemagglutination and hemolysis. Glycophorin A binds siglec 5, the erythrocyte binding antigen (EBA-175) of <i>P. falciparum</i> and some viruses, including influenza virus and hepatitis A virus.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Red Laser (633 nm)
Additional Product Notes	BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References (PubMed link indicates BioLegend citation)	1. Mason D, <i>et al.</i> Eds. 2002. Leucocyte Typing VII: White Cell Differentiation Antigens. Oxford University Press. (FC)
Product Citations	1. Liu Y, <i>et al.</i> 2022. Signal Transduct Target Ther. 7:347. PubMed 2. Cassandras M, <i>et al.</i> 2020. Nat Cell Biol. 1295:22. PubMed 3. Caielli S, <i>et al.</i> 2021. Cell. 184(17):4464-4479.e19. PubMed 4. Kieffer Y, <i>et al.</i> 2020. Cancer Discov. 1.340277778. PubMed 5. Hu C, <i>et al.</i> 2021. Mol Med Rep. 1. PubMed 6. Helmink BA, <i>et al.</i> 2020. Nature. 577:549. PubMed 7. Zeng Y, <i>et al.</i> 2019. Cell Res. 29:881. PubMed 8. Zeng Y <i>et al.</i> 2019. Immunity. 51(5):930-948. PubMed 9. Sade-Feldman M, <i>et al.</i> 2018. Cell. 175:998. PubMed

10. He J, et al. 2021. Cell Res. 31:742. [PubMed](#)
11. Martin GE, et al. 2018. Front Immunol. 1.019444444. [PubMed](#)

RRID AB_2650977 (BioLegend Cat. No. 349115)
AB_2650978 (BioLegend Cat. No. 349116)

Antigen Details

Structure	Member of the glycophorin A family; type I protein with a molecular weight of 10 kD; present in the membrane as homodimer
Distribution	Erythrocytes and erythroid precursors
Function	Possible inhibitor of hemagglutination and hemolysis; carries the antigen determinants for the MNS blood groups
Ligand/Receptor	Siglec 5, erythrocyte binding antigen (EBA-175) of <i>P. falciparum</i> , receptor for the influenza virus, hepatitis A virus
Cell Type	Erythrocytes
Biology Area	Cell Adhesion, Cell Biology, Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Reid ME. 2009. <i>Immunohematology</i> 25:95. 2. Palacajornsuk P. 2006. <i>Immunohematology</i> 22:171. 3. Pasvol G. 2003. <i>Trends Parasitol.</i> 19:430. 4. Takakuwa Y. 2001. <i>Curr. Opin. Hematol.</i> 8:80.
Gene ID	2993

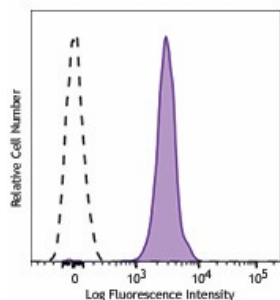
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Pacific Blue™ anti-human CD235a (Glycophorin A), PE anti-human CD235a (Glycophorin A), Purified anti-human CD235a (Glycophorin A), FITC anti-human CD235a (Glycophorin A), PerCP/Cyanine5.5 anti-human CD235a (Glycophorin A), PE/Cyanine7 anti-human CD235a (Glycophorin A), APC anti-human CD235a (Glycophorin A), APC/Cyanine7 anti-human CD235a (Glycophorin A), TotalSeq™-A0574 anti-human CD235a (Glycophorin A), PE/Dazzle™ 594 anti-human CD235a (Glycophorin A), TotalSeq™-C0574 anti-human CD235a (Glycophorin A), Alexa Fluor® 700 anti-human CD235a (Glycophorin A), TotalSeq™-D0574 anti-human CD235a (Glycophorin A)

Product Data



Human red blood cells were stained with anti-human CD235a (clone HI264) APC/Cyanine7 (filled histogram) or mouse IgG2a, ? APC/Cyanine7 isotype control (open histogram).

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