

TotalSeq™-C0574 anti-human CD235a (Glycophorin A) Antibody

Catalog# / Size	349123 / 10 µg
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
Barcode Sequence	AGAGTATGTATGGGA
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 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Additional Product Notes	<p>TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq.</p> <p>The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.</p>

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

1. Mason D, *et al.* Eds. 2002. Leucocyte Typing VII: White Cell Differentiation Antigens. Oxford University Press. (FC)

RRID AB_2892424 (BioLegend Cat. No. 349123)

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	<ol style="list-style-type: none">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

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

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)

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587

