

Mouse anti-Rat, Human CD235a Monoclonal Antibody | anti-CD235a antibody

Anti-Hu CD235a PE-Cy7

CATALOG # AAA129173	HOST Mouse	REACTIVITY Rat, Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD235a; Monoclonal Antibody; Anti-Hu CD235a PE-Cy7; Glycophorin A; GYPA; GPA; PAS-2; Sialoglycoprotein alpha; MN sialoglycoprotein; GPSAT; GPERik; MSN blood group; glycophorin A (MNS blood group); anti-CD235a antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	JC159
Specificity	The mouse monoclonal antibody JC159 recognizes an epitope between amino acids 27 and 40 of the extracellular portion of CD235a (glycophorin A), a sialoglycoprotein expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and the cells of erythroid cell lines K562 and HEL. The antibody does not react with glycophorin B.
Purity/Purification	The purified antibody is conjugated with tandem dye PE-Cy7 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD235a antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE-Cy7
Immunogen	Membrane preparation from splenic hairy cell leukemia
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD235a antibody	CD235a (Glycophorin A, GPA) is a transmembrane sialoglycoprotein expressed on erythrocytes and their precursors. Similarly to glycophorin B (GPB), these molecules provide the cells with a large mucin-like surface, which minimalizes aggregation between erythrocytes in the circulation. GPA is the carrier of blood group M and N specificities, while GPB accounts for S, s and U specificities. CD235a is a receptor of Hsa, an Streptococcus adhesin.
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References	*Alijotas-Reig J, Palacio-Garcia C, Llurba E, Vilardell-Tarres M: Cell-derived microparticles and vascular pregnancy complications: a systematic and comprehensive review. Fertil Steril. 2013 Feb;99(2):441-9., URL: https://www.ncbi.nlm.nih.gov/pubmed/23122952; *Maijenburg MW, Kleijer M, Vermeul K, Mul EP, van Alphen FP, van der Schoot CE, Voermans C: The composition of the mesenchymal stromal cell compartment in human bone marrow changes during development and aging. Haematologica. 2012 Feb;97(2):179-83., URL: http://www.ncbi.nlm.nih.gov/pubmed/term=kleijer+m; *Beck Z, Jagodzinski LL, Eller MA, Thelian D, Matyas GR, Kunz AN, Alving CR: Platelets and erythrocyte-bound platelets bind infectious HIV-1 in plasma of chronically infected patients. PLoS One. 2013 Nov 25;8(11):e81002., URL: http://www.ncbi.nlm.nih.gov/pubmed/term=beck+z+ja; *Yamauchi T, Takenaka K, Urata S, Shima T, Kikushige Y, Tokuyama T, Iwamoto C, Nishihara M, Iwasaki H, Miyamoto T, Honma N, Nakao M, Matozaki T, Akashi K: Polymorphic Sirpa is the genetic determinant for NOD-based mouse lines to achieve efficient human cell engraftment. Blood. 2013 Feb 21;121(8):1316-25., URL: http://www.ncbi.nlm.nih.gov/pubmed/23293079 *Nakahata T and Okumura N: Cell surface antigen expression in human erythroid progenitors: erythroid and megakaryocytic markers. Leuk Lymphoma. 1994;13: 401., URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=p; *Yajima A, Urano-Tashiro Y, Shimazu K, Takashima E, Takahashi Y, Konishi K: Hsa, an adhesin of Streptococcus gordonii DL1, binds to alpha2-3-linked sialic acid on glycophorin A of the erythrocyte membrane. Microbiol Immunol. 2008;52(2):69-77., URL: https://www.ncbi.nlm.nih.gov/pubmed/18380804 ordin,*Rogers CE, Bradley MS, Palsson BO et al: Flow cytometric analysis of human bone marrow perfusion cultures: erythroid development and relationship withburst-forming units-erythroid. Exp Hematol. 1996; 24: 597., URL: https://www.ncbi.nlm.nih.gov/pubmed/8605964 dopt=A,*Bain BJ: Leukemia Diagnosis: a guide to the FAB classification. Gower Medical Publishing; 1990., URL:,*Keren DF, Hanson CA and Hurtubise PE, eds.: Flow Cytometry and Clinical Diagnosis. Chicago, IL: ASCP Press; 1994., URL:
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NCBI AND UNIPROT INFORMATION

NCBI GI #	259016238
NCBI GeneID	2993
UniProt Accession #	P02724; Q9BS51; A8K3E6; B8Q182; B8Q185
Molecular Weight	13,000 Da
NCBI Official Full Name	Glycophorin-A
NCBI Official Synonym Full Names	glycophorin A (MNS blood group)
NCBI Official Symbol	GYPA
NCBI Official Synonym Symbols	MN; GPA; MNS; GPSAT; PAS-2; CD235a; GPERik; HGpMiV; HGpMiXI; HGpSta(C)
NCBI Protein Information	glycophorin-A
UniProt Protein Name	Glycophorin-A
UniProt Gene Name	GYPA
UniProt Synonym Gene Names	GPA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd235a-antibody-clone-jc159-flow-cytometry-elisa/129173>