

Product datasheet

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ARG53799 anti-CD235a antibody [HIR2] (PE)

Package: 100 tests Store at: 4°C

Summary

Product Description PE-conjugated Mouse Monoclonal antibody [HIR2] recognizes CD235a

Tested Reactivity Hu
Tested Application FACS

Specificity The clone HIR2 recognizes N-terminal portion of glycophorin A (and weakly of glycophorin B). Its

antigen is expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and

the cells of erythroid cell lines K562 and HEL, but not on all other cells.

HLDA VII; WS Code 70299

Host Mouse

Clonality Monoclonal

 Clone
 HIR2

 Isotype
 IgG2b

 Target Name
 CD235a

Species Human

Immunogen Synthetic peptide (Human, N-terminal)

Conjugation PE

Alternate Names MN; GPErik; MNS; GPA; GPSAT; PAS-2; MN sialoglycoprotein; CD235a; HGpMiV; CD antigen CD235a;

HGpMiXI; Sialoglycoprotein alpha; HGpSta(C); Glycophorin-A

Application Instructions

Application table	Application	Dilution
	FACS	20 μl / 10^6 cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Note The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The

conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is

necessary.

Buffer PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA

Preservative 15 mM Sodium azide

Stabilizer 0.2% (w/v) high-grade protease free BSA

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

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For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 2993 Human</u>

Swiss-port # P02724 Human

Gene Symbol GYPA

Gene Full Name glycophorin A (MNS blood group)

Background 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 mucinlike 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.

Function Glycophorin A is the major intrinsic membrane protein of the erythrocyte. The N-terminal glycosylated

segment, which lies outside the erythrocyte membrane, has MN blood group receptors. Appears to be important for the function of SLC4A1 and is required for high activity of SLC4A1. May be involved in translocation of SLC4A1 to the plasma membrane. Is a receptor for influenza virus. Is a receptor for Plasmodium falciparum erythrocyte-binding antigen 175 (EBA-175); binding of EBA-175 is dependent on sialic acid residues of the O-linked glycans. Appears to be a receptor for Hepatitis A virus (HAV).

[UniProt]

Research Area Cell Biology and Cellular Response antibody

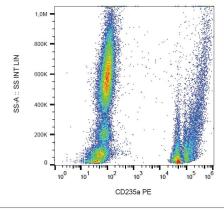
Calculated Mw 16 kDa

PTM The major O-linked glycan are NeuAc-alpha-(2-3)-Gal-beta-(1-3)-[NeuAc-alpha-(2-6)]-GalNAcOH (about

78 %) and NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH (17 %). Minor O-glycans (5 %) include NeuAc-alpha-(2-3)-Gal-beta-(1-3)-Gal-beta-(1-3)-GalNAcOH NeuAc-alpha-(2-8)-NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH. About 1% of all O-linked glycans carry blood group A, B and H determinants. They derive from a type-2 precursor core structure, Gal-beta-(1,3)-GlcNAc-beta-1-R, and the antigens are synthesized by addition of fucose (H antigen-specific) and then N-acetylgalactosamine (A antigen-specific) or galactose (B antigen-specific). Specifically O-linked-glycans are NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH-(6-1)-GlcNAc-beta-(4-1)-[Fuc-alpha-(1-2)]-Gal-beta-(3-1)-GalNAc-alpha (about 1%, B antigen-specific) and NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH-(6-1)-GlcNAc-beta-(4-1)-[Fuc-

alpha-(1-2)]-Gal-beta (1 %, O antigen-, A antigen- and B antigen-specific).

Images



ARG53799 anti-CD235a antibody [HIR2] (PE) FACS image

Flow Cytometry: Human peripheral blood stained with ARG53799 anti-CD235a antibody [HIR2] (PE).