

Datasheet for ABIN1981887
anti-CD235a/GYPA antibody (FITC)

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Overview

Quantity:	100 tests
Target:	CD235a/GYPA (GYPA)
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD235a/GYPA antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Membrane preparation from splenic hairy cell leukemia
Clone:	JC159
Isotype:	IgG1
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.
Cross-Reactivity (Details):	Human, Rat
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD235a/GYPA (GYPA)
Alternative Name:	CD235a (GYPA Products)
Background:	Glycophorin A (MNS blood group),CD235a (glycophorin A, GPA) is a transmembrane sialoglycoprotein expressed on erythrocytes and their precursors. Similarly to CD235b (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, a Streptococcus adhesin.,Glycophorin A, GYPA, GPA, PAS-2, Sialoglycoprotein alpha, MN sialoglycoprotein, GPSAT, GP _E rik, MSN blood group
Gene ID:	2993
UniProt:	P02724
Pathways:	Maintenance of Protein Location

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be

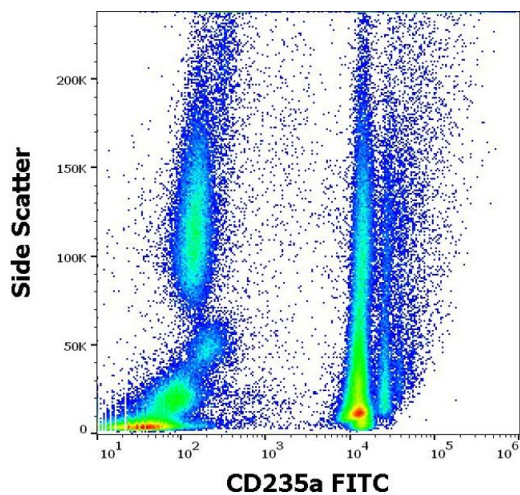
Handling

	verified by the user.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

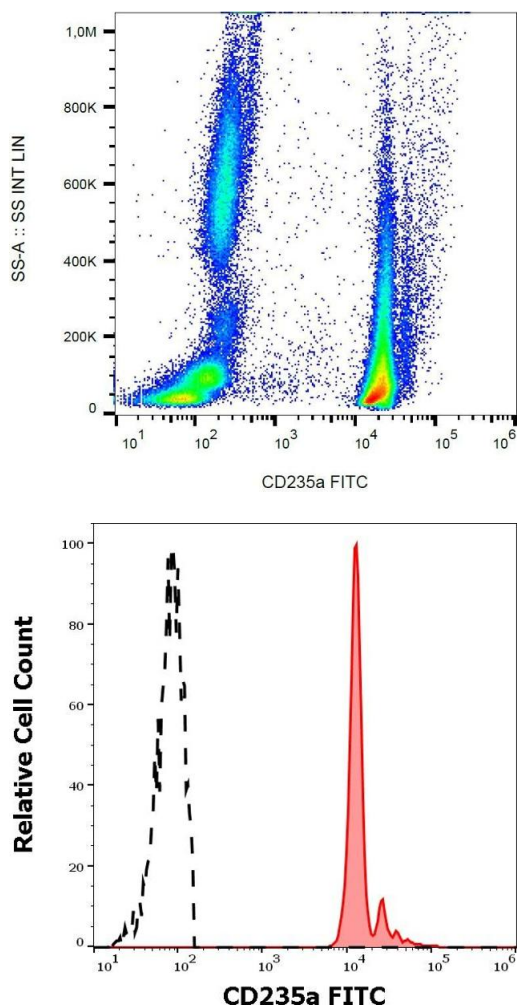
Product cited in:	<p>Yamauchi, Takenaka, Urata, Shima, Kikushige, Tokuyama, Iwamoto, Nishihara, Iwasaki, Miyamoto, Honma, Nakao, Matozaki, Akashi: "Polymorphic Sirpa is the genetic determinant for NOD-based mouse lines to achieve efficient human cell engraftment." in: Blood, Vol. 121, Issue 8, pp. 1316-25, (2013) (PubMed).</p> <p>Alijotas-Reig, Palacio-Garcia, Llurba, Vilardell-Tarres: "Cell-derived microparticles and vascular pregnancy complications: a systematic and comprehensive review." in: Fertility and sterility, Vol. 99, Issue 2, pp. 441-9, (2013) (PubMed).</p> <p>Maijenburg, Kleijer, Vermeul, Mul, van Alphen, van der Schoot, Voermans: "The composition of the mesenchymal stromal cell compartment in human bone marrow changes during development and aging." in: Haematologica, Vol. 97, Issue 2, pp. 179-83, (2012) (PubMed).</p>
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Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD235a (JC159) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of CD235a in human peripheral blood (erythrocytes and leukocytes) with anti-CD235a (JC159) FITC.

Flow Cytometry

Image 3. Separation of human red blood cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD235a (JC159) FITC antibody (4 μ L reagent / 100 μ L of peripheral whole blood).