

Datasheet for ABIN2749119
anti-CD235a/GYPA antibody (PE)[3 Images](#)[4 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 tests
Target:	CD235a/GYPA (GYPA)
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD235a/GYPA antibody is conjugated to PE
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 R-phycoerythrin (PE) under optimum conditions. 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 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

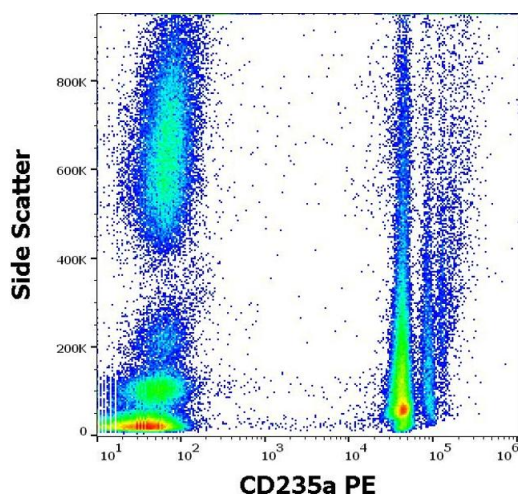
Handling

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

Publications

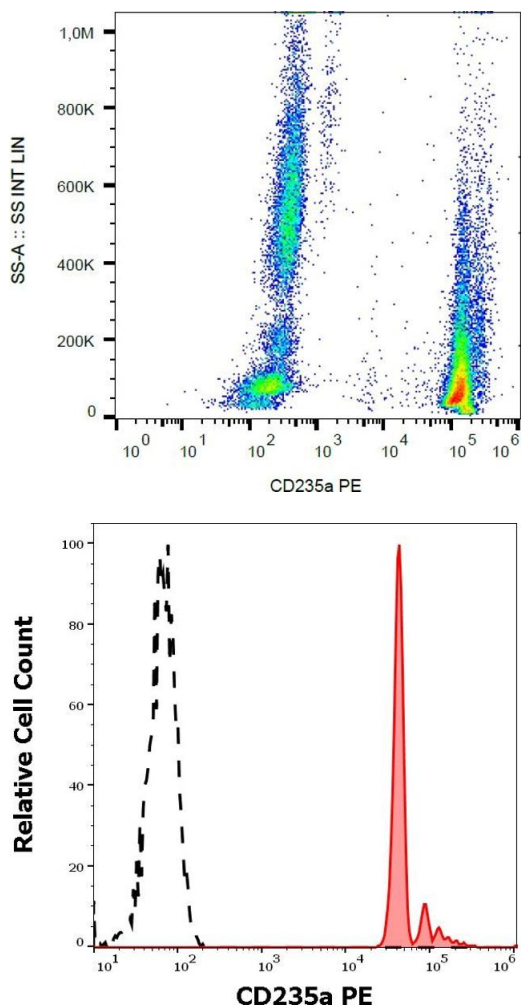
- Product cited in: Yamauchi, Takenaka, Urata, Shima, Kikushige, Tokuyama, Iwamoto, Nishihara, Iwasaki, Miyamoto, Honma, Nakao, Matozaki, Akashi: "Polymorphic Sirpa is the genetic determinant for NOD-based mouse lines to achieve efficient human cell engraftment." in: **Blood**, Vol. 121, Issue 8, pp. 1316-25, (2013) ([PubMed](#)).
- Beck, Jagodzinski, Eller, Thelian, Matyas, Kunz, Alving: "Platelets and erythrocyte-bound platelets bind infectious HIV-1 in plasma of chronically infected patients." in: **PLoS ONE**, Vol. 8, Issue 11, pp. e81002, (2013) ([PubMed](#)).
- 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](#)).
- 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](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD235a (JC159) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).



Flow Cytometry

Image 2. Flow cytometry analysis (surface staining) of CD235a in human peripheral blood (erythrocytes and leukocytes) with anti-CD235a (JC159) PE.

Flow Cytometry

Image 3. Separation of human erythrocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD235a (JC159) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).