



11-784-C025

Monoclonal Antibody to CD235a Purified Antibody (0.025 mg)

Clone:	JC159
Isotype:	Mouse 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.
Regulatory Status:	RUO
Immunogen:	Membrane preparation from splenic hairy cell leukemia
Species Reactivity:	Human, Rat
Application:	Flow Cytometry Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml Immunohistochemistry (frozen sections)
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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 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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Antibodies

- References:**
- *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.
 - *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.
 - *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.
 - *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.

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