

1P-784-T100

Monoclonal Antibody to CD235a Phycoerythrin (PE) conjugated (100 tests)

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
Preparation:	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.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry 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.
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.
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. <i>Haematologica</i> . 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. <i>PLoS One</i> . 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. <i>Blood</i> . 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. <i>Fertil Steril</i> . 2013 Feb;99(2):441-9.

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Antibodies

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