

A6-419-T025

Monoclonal Antibody to CD235a Alexa Fluor® 647 conjugated (25 tests)

Clone:	HIR2
Isotype:	Mouse IgG2b
Specificity:	The antibody HIR2 recognizes N-terminal portion of glycoprotein A (and weakly of glycoprotein 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
Immunogen:	Synthetic peptide (Human, N-terminal)
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Alexa Fluor® 647 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 phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
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. 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 verified by the user.
Usage:	The reagent is designed for Flow Cytometry 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 (0.1 ml) is sufficient for 25 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 glycoprotein B (GPB), these molecules provide the cells with a large mucin-like surface, which minimizes 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.

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

**Antibodies****References:**

- *Nakahata T and Okumura N: Cell surface antigen expression in human erythroid progenitors: erythroid and megakaryocytic markers. *Leuk Lymphoma*. 1994;13: 401.
- *Rogers CE, Bradley MS, Palsson BO et al: Flow cytometric analysis of human bone marrow perfusion cultures: erythroid development and relationship withburst-forming units-erythroid. *Exp Hematol*. 1996; 24: 597.
- Bain BJ: *Leukemia Diagnosis: a guide to the FAB classification*. Gower Medical Publishing; 1990.
- Keren DF, Hanson CA and Hurtubise PE, eds.: *Flow Cytometry and Clinical Diagnosis*. Chicago, IL: ASCP Press; 1994.
- *Yajima A, Urano-Tashiro Y, Shimazu K, Takashima E, Takahashi Y, Konishi K: Hsa, an adhesin of *Streptococcus gordonii* DL1, binds to alpha2-3-linked sialic acid on glycoprotein A of the erythrocyte membrane. *Microbiol Immunol*. 2008;52(2):69-77.
- *Leukocyte Typing VII., Mason D. et al. (Eds.), Oxford University Press (2002); p.577-582.

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EXBIO Praha | Nad Safinou II 341 | 252 42 Vestec u Prahy | Czech Republic
Tel: +420 261 090 664 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz