Antibodies

Anti-Human CD235ab (Glycophorin A/B) Antibody, Clone HIR2, Biotin

Mouse monoclonal IgG2b antibody against human CD235ab (glycophorin A/B), biotin-conjugated

Catalog #60111BT 100 µg 0.5 mg/mL

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Product Description

HIR2 (GA-R2) antibody recognizes an epitope common to the N-terminal region of human CD235a (glycophorin A) and CD235b (glycophorin B), homologous type I sialoglycoproteins of the erythrocyte (red blood cell) membrane that bear the antigenic determinants for the MN and Ss blood groups. CD235ab is expressed on early- and late-stage erythroblasts, mature erythrocytes, and erythroid cell lines, such as K562 and HEL but not on other cell types. CD235a is abundantly expressed whereas CD235b is a relatively minor membrane component. The proteins are believed to provide a large mucin-like surface to erythrocytes that acts to minimize aggregation in the circulation. The HIR2 antibody binds with higher affinity to CD235a than CD235b and agglutinates untreated erythrocytes.

Target Antigen Name:	CD235ab (Glycophorin A/B)
Alternative Names:	CD235a, CD235ab, CD235b, Glycophorin A, Glycophorin B, GPA, GPB, GYPA, GYPB, MN sialoglycoprotein, PAS-2, PAS-3, Sialoglycoprotein alpha, Sialoglycoprotein delta, SS-active sialoglycoprotein
Gene ID:	2993/2994
Species Reactivity:	Human
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	HIR2 (GA-R2)
Isotype:	IgG2b, kappa
Immunogen:	Synthetic peptide corresponding to N-terminal region of human CD235ab
Conjugate:	Biotin

Applications

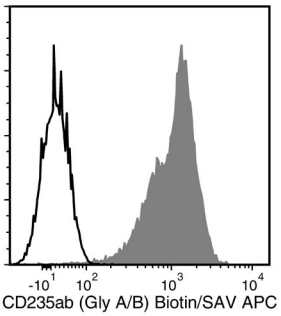
Verified:	FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Aqueous buffer containing 0.09% sodium azide, may contain carrier protein/stabilizer
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry, the suggested use of this antibody is ≤ 0.125 µg per 1 x 10^6 cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of human whole blood labeled with Anti-Human CD235ab (Glycophorin A/B) Antibody, Clone HIR2, Biotin, followed by streptavidin (SAV) APC (filled histogram), or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, Biotin (Catalog #60072BT), followed by SAV APC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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