

Antibodies

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

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

Catalog #60111AZ
#60111AZ.1

100 µg	0.2 mg/mL
25 µg	0.2 mg/mL



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Product Description

The 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, GYP A, 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:	APC

Applications

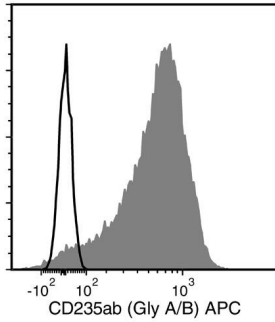
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Glycophorin A Depletion Kit (Catalog #18352).

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; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is $\leq 0.15 \mu\text{g}$ per 1×10^6 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, APC (filled histogram) or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, APC (Catalog #60072AZ) (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, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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