Antibodies

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

Mouse monoclonal IgG2b antibody against human CD235ab (Glycophorin A/B), unconjugated

Catalog	#60111	100 µg	0.5 mg/mL
	#60111.1	25 µg	0.5 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, 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:	Unconjugated

Applications

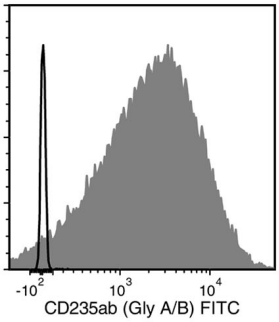
Verified:	FC
Reported:	CyTOF®, FC, ICC, IF, IHC, IP, WB
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Positive Glycophorin A Depletion Cocktail (Catalog #18352) and RoboSep™ Human Positive Glycophorin A Depletion Kit (Catalog #18352RF).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation:	Aqueous buffer containing 0.09% sodium azide, may contain carrier protein/stabilizer
Purification:	The antibody was purified by column chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 1 µg per 1 x 10e6 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 followed by a goat anti-mouse IgG antibody, FITC (filled histogram), or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11 (Catalog #60072) followed by a goat anti-mouse IgG antibody, FITC (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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