

## Antibodies

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

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

Catalog #60111  
#60111.1

100 µg 0.5 mg/mL  
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

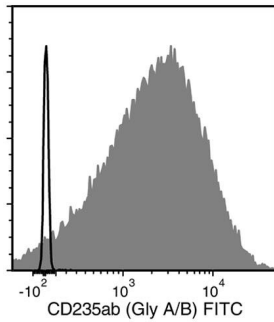
Verified:	FC
Reported:	CyTOF®, FC, ICC, IF, IHC, IP, WB
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Glycophorin A Depletion Kit (Catalog #18352).

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:	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 10 <sup>6</sup> cells in 100 µL. 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 Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (Catalog #60138FI) (filled histogram), or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11 (Catalog #60072), followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, 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](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

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