Antibodies

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

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

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Quantity</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>#60111PE</td>
<td>100 µg</td>
<td>0.2 mg/mL</td>
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<tr>
<td>#60111PE.1</td>
<td>25 µg</td>
<td>0.2 mg/mL</td>
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</tbody>
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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 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, 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

**Conjugate:** PE

**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).

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

**Purification:** The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE 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 ≤ 0.2 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.

**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**

Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Data

Flow cytometry analysis of human whole blood labeled with Anti-Human CD235ab (Glycophorin A/B) Antibody, Clone HIR2, PE (filled histogram) or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, PE (Catalog #60072PE) (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