

Biotin Anti-Glycophorin A + B antibody [HIR2] ab93548

★★★★★ [1 Abreviews](#) [1 References](#)

Overview

Product name	Biotin Anti-Glycophorin A + B antibody [HIR2]
Description	Biotin Mouse monoclonal [HIR2] to Glycophorin A + B
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human Glycophorin A + B (N terminal).
Positive control	Human peripheral blood leukocytes
General notes	<p>Mouse monoclonal [HIR2] to Glycophorin A (Biotin) also has a clone number GA-R2.</p> <p>Binding of ab93548 to red cells at high antibody concentration causes cell agglutination.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: PBS, 0.1% Gelatin</p>
Purity	Protein G purified
Primary antibody notes	Binding of ab93548 to red cells at high antibody concentration causes cell agglutination.
Clonality	Monoclonal
Clone number	HIR2

Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab93548 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt	★★★★★ (1)	Use at an assay dependent concentration. Use 0.125ug for 10 ⁵ to 10 ⁸ cells in a final volume of 100 ul. ab18418 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Target

Relevance Glycophorins A (GYPA) and B (GYPB) are major sialoglycoproteins of the human erythrocyte membrane which bear the antigenic determinants for the MN and Ss blood groups. GYPA gene consists of 7 exons and has 97% sequence homology with GYPB from the 5' UTR to the coding sequence encoding the first 45 amino acids. GYPB accounts for S, s and U specificities. GPA and GPB provide the cells with a large mucin-like surface and it has been suggested this provides a barrier to cell fusion, so minimizing aggregation between red blood cells in the circulation. In addition to the M or N and S or s antigens, that commonly occur in all populations, about 40 related variant phenotypes have been identified. These variants include all the variants of the Miltenberger complex and several isoforms of Sta; also, Dantu, Sat, He, Mg, and deletion variants Ena, S-s-U- and Mk. Most of the variants are resulted from gene recombinations between GYPA and GYPB. These antigens are expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and the cells of erythroid cell lines K562 and HEL, but not on all other cells (mature erythrocytes are characteristically CD235a positive and CD45 and CD71 negative).

Cellular localization Type I membrane protein.

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