abcam

Product datasheet

PE Anti-Glycophorin A antibody [JC159], prediluted ab197142

2 Images

Overview

Product name	PE Anti-Glycophorin A antibody [JC159], prediluted
Description	PE Mouse monoclonal [JC159] to Glycophorin A, prediluted
Host species	Mouse
Conjugation	PE. Ex: 488nm, Em: 575nm
Specificity	ab197142 does not react with Glycophorin B.
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human Glycophorin A. (Membrane preparation from splenic hairy cell leukemia).
Epitope	ab197142 recognizes an epitope between amino acids 27 and 40 of the extracellular portion of Glycophorin A.
Positive control	Flow Cyt: Human blood cells.
General notes	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.

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 |

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	pH: 7.4
Preservative: 0.0975% Sodium azide
Constituents: 0.2% BSA, 99% PBS
Purity	Size exclusion
Purification notes	Purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The

conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Clonality	Monoclonal
Clone number	JC159
Isotype	IgG1

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab197142 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		Use at an assay dependent concentration. 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension.

Target

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Function	Glycophorin A is the major intrinsic membrane protein of the erythrocyte. The N-terminal glycosylated segment, which lies outside the erythrocyte membrane, has MN blood group receptors. Appears to be important for the function of SLC4A1 and is required for high activity of SLC4A1. May be involved in translocation of SLC4A1 to the plasma membrane. Is a receptor for influenza virus. Is a receptor for Plasmodium falciparum erythrocyte-binding antigen 175 (EBA-175); binding of EBA-175 is dependent on sialic acid residues of the O-linked glycans. Appears to be a receptor for Hepatitis A virus (HAV).
Sequence similarities	Belongs to the glycophorin A family.
Post-translational modifications	The major O-linked glycan are NeuAc-alpha-(2-3)-Gal-beta-(1-3)-[NeuAc-alpha-(2-6)]-GalNacOH (about 78 %) and NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH (17 %). Minor O-glycans (5 %) include NeuAc-alpha-(2-3)-Gal-beta-(1-3)-[NeuAc-alpha-(2-6)]-GalNAcOH NeuAc-alpha-(2-8)-NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH. About 1% of all O-linked glycans carry blood group A, B and H determinants. They derive from a type-2 precursor core structure, Gal-beta-(1,3)-GlcNAc-beta-1-R, and the antigens are synthesized by addition of fucose (H antigen-specific) and then N-acetylgalactosamine (A antigen-specific) or galactose (B antigen-specific). Specifically O-linked-glycans are NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH-(6-1)-GlcNAc-beta-(4-1)-[Fuc-alpha-(1-2)]-Gal-beta-(3-1)-GalNAc-alpha (about 1%, B antigen-specific) and NeuAc-alpha-(2-3)-Gal-beta-(1-3)-GalNAcOH-(6-1)-GlcNAc-beta-(4-1)-[Fuc-alpha-(1-2)]-Gal-beta (1 %, O antigen-, A antigen- and B antigen-specific).
Cellular localization	Cell membrane. Appears to be colocalized with SLC4A1.

Images
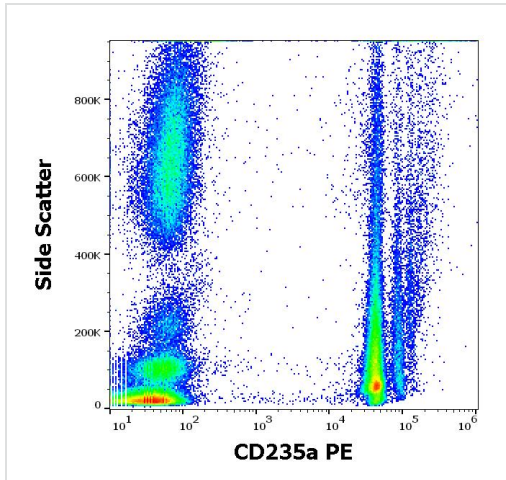
Flow cytometry surface staining pattern of human peripheral whole blood stained using ab197142 (JC159) PE antibody at 10 µL reagent/100 µL of peripheral whole blood.

Flow Cytometry - PE Anti-Glycophorin A antibody [JC159], prediluted (ab197142)
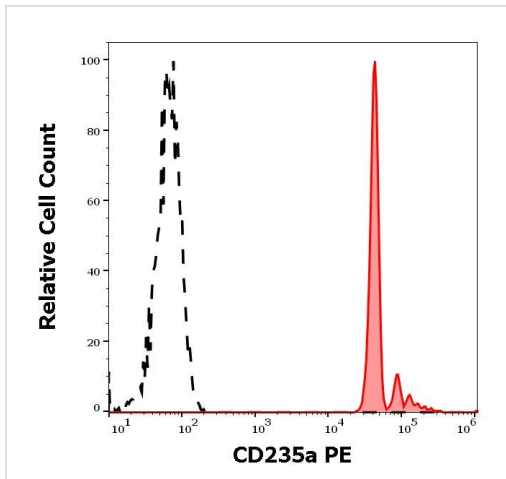
Separation of human erythrocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab197142 (JC159) PE antibody at 10 µL reagent/100 µL of peripheral whole blood.

Flow Cytometry - PE Anti-Glycophorin A antibody [JC159], prediluted (ab197142)

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