

Product datasheet

PE/Cy7® Anti-Glycophorin A antibody [HIR2] - N-terminal ab233579

1 Image

Overview

<b>Product name</b>	PE/Cy7® Anti-Glycophorin A antibody [HIR2] - N-terminal
<b>Description</b>	PE/Cy7® Mouse monoclonal [HIR2] to Glycophorin A - N-terminal
<b>Host species</b>	Mouse
<b>Conjugation</b>	PE/Cy7®. Ex: 496nm, Em: 774nm

Tested Applications & Species

Application	Species
Flow Cyt	✔ Human

See all applications and species data ↓

<b>Immunogen</b>	Synthetic peptide corresponding to Human Glycophorin A (N terminal). Database link: <a href="#">P02724</a>
<b>Positive control</b>	Flow Cytometry: Human peripheral blood cells.
<b>General notes</b>	This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy and CyDye are trademarks of GE Healthcare Limited.

Properties





<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Store In the Dark.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.0975% Sodium azide Constituent: PBS
<b>Purity</b>	Size exclusion
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	HIR2
<b>Isotype</b>	IgG2b

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of **ab233579** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

 <b>Guaranteed</b> Tested applications are guaranteed to work and covered by our Abpromise guarantee.	 <b>Predicted</b> Predicted to work for this combination of applications and species but not guaranteed.	 <b>Incompatible</b> Does not work for this combination of applications and species.
Application	Species	
Flow Cyt	 Human	
Application	Abreviews	Notes
Flow Cyt		Use 4µl for 10 <sup>6</sup> cells.

## Target

### 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.

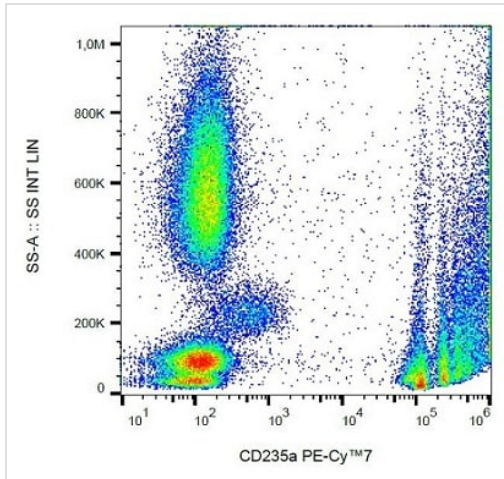
### Post-translational modifications

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



Surface staining of human peripheral blood cells using ab233579.  
Gated on leukocytes and erythrocytes.

Flow Cytometry - PE/Cy7® Anti-Glycophorin A  
antibody [HIR2] - N-terminal (ab233579)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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