abcam

Product datasheet

Anti-Glycophorin C/GPC antibody [EPR4116] - BSA and Azide free ab247712

Recombinant RabMAb

6 Images

Overview

Product name	Anti-Glycophorin C/GPC antibody [EPR4116] - BSA and Azide free
Description	Rabbit monoclonal [EPR4116] to Glycophorin C/GPC - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, IP, Flow Cyt (Intra), WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cyt: K562 cell lysate; IP: TF-1 lysate.
General notes	ab247712 is the carrier-free version of **ab108925**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR4116
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247712 in the following tested applications.

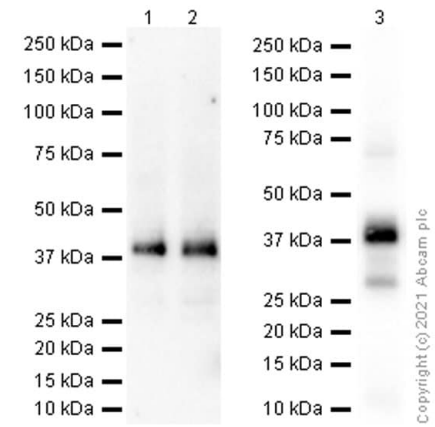
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 14 kDa.

Target

Function	This protein is a minor sialoglycoprotein in human erythrocyte membranes. The blood group Gerbich antigens and receptors for Plasmodium falciparum merozoites are most likely located within the extracellular domain. Glycophorin-C plays an important role in regulating the stability of red cells.
Tissue specificity	Glycophorin-C is expressed in erythrocytes. Glycophorin-D is ubiquitous.
Sequence similarities	Belongs to the glycophorin-C family.
Cellular localization	Cell membrane. Linked to the membrane via band 4.1.

Images



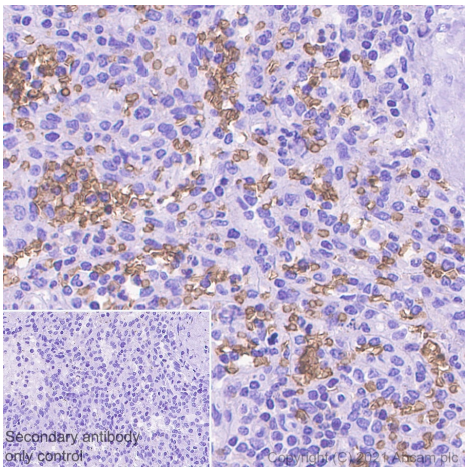
Western blot - Anti-Glycophorin C/GPC antibody [EPR4116] - BSA and Azide free (ab247712)

All lanes : Anti-Glycophorin C/GPC antibody [EPR4116] (**ab108925**) at 1/1000 dilution (Purified)

Lane 1 : TF-1 (Human Erythroleukemia erythroblast) whole cell lysate
Lane 2 : K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate
Lane 3 : Human red blood lysate

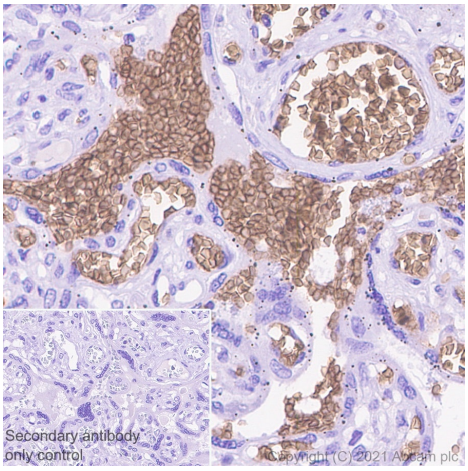
Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 14 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glycophorin C/GPC antibody [EPR4116] - BSA and Azide free (ab247712)

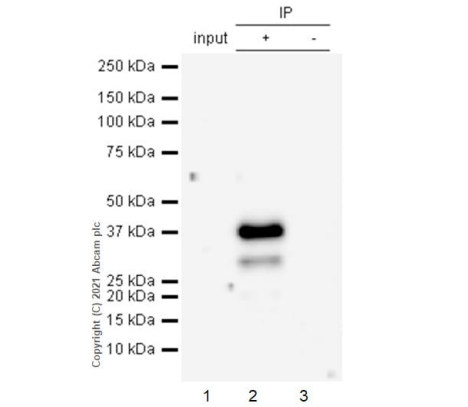
This data was developed using **ab108925**, the same antibody clone in a different buffer formulation.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue sections labeling Glycophorin C/GPC with Purified **ab108925** at 1:1500 dilution (0.06 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glycophorin C/GPC antibody [EPR4116] - BSA and Azide free (ab247712)

This data was developed using **ab108925**, the same antibody clone in a different buffer formulation.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue sections labeling Glycophorin C/GPC with Purified **ab108925** at 1:1500 dilution (0.06 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. M3



Immunoprecipitation - Anti-Glycophorin C/GPC antibody [EPR4116] - BSA and Azide free (ab247712)

This data was developed using **ab108925**, the same antibody clone in a different buffer formulation.

Glycophorin C/GPC was immunoprecipitated from 0.35 mg TF-1 (Human Erythroleukemia erythroblast) whole cell lysate 10 µg with **ab108925** at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.

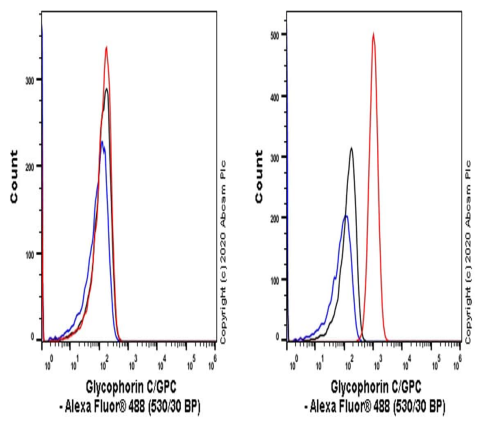
Lane 1: TF-1 (Human Erythroleukemia erythroblast) whole cell lysate 10 µg

Lane 2: abab108925 IP in TF-1 whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab108925** in TF-1 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

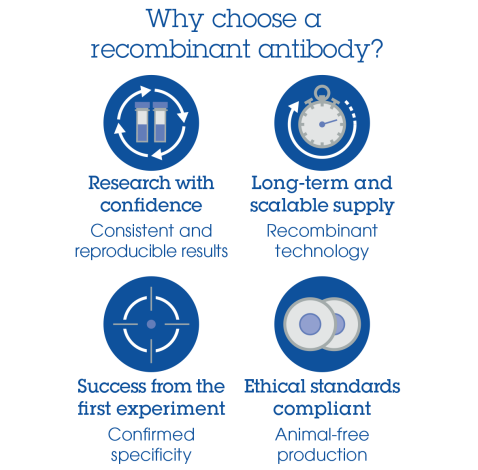
Lower band could be N-Deglycosylated GPC. (PMID: 16461900)



Flow Cytometry (Intracellular) - Anti-Glycophorin C/GPC antibody [EPR4116] - BSA and Azide free (ab247712)

This data was developed using **ab108925**, the same antibody clone in a different buffer formulation.

Flow Cytometry analysis of A549 (Human lung carcinoma epithelial cell, Left) / K-562 (Human chronic myelogenous leukemia lymphoblast, Right) cells labeling Glycophorin C/GPC with purified **ab108925** at 1/10000 dilution (0.1 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).
Negative control: A549.



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