abcam

ab95823

PE/Cy5® Anti-Ly76 antibody [TER-119]

Anti-Ly76 antibody [TER-119] conjugated to PE/Cy5® - suitable for flow cytometry, and reacts with mouse samples. Clone [TER-119] is a rat monoclonal antibody and one of the most commonly used clones for flow cytometry.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG2b
Host species	Rat
Conjugation	PE/Cy5®
Excitation/Emission	Ex: 496nm, Em: 667nm
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: PBS, 0.87% Sodium chloride
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing Ly76 protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	TER-119
Purification technique	Affinity purification Protein G
Light chain type	kappa
Concentration	0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	0.125-0.25 µg for 10^5 Cells
Notes	Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test (based on a test volume of 100 µl).

Target data

See full target information Ly76

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Ly76 also known as glycophorin A is a well-defined protein expressed predominantly on the surface of red blood cells. This protein consisting of approximately 152 amino acids and with a molecular mass of around 31 kilodaltons plays a role in maintaining cell integrity. Glycophorin A is responsible for making the cell membrane more pliable facilitating proper red blood cell function. It is also important for serving as a receptor or a carrier for various molecules that interact with the cell surface.
Biological function summary	Glycophorin A contributes to the structural stability and flexibility of erythrocyte membranes. It participates as a part of the complex with other proteins such as band 3 and protein 4.2 which support the stability of the membrane's cytoskeletal architecture. This interaction is important for the proper shape and resilience of red blood cells enabling them to withstand shear stress as they travel through narrow capillaries. Additionally glycophorin A carries carbohydrate structures that can serve as antigens which are vital for immune recognition.
Pathways	Glycophorin A engages in pathways related to erythrocyte function and immune interactions. It interacts with proteins integral to maintaining red blood cell membrane structure and flexibility such as band 3 and spectrin. Moreover glycophorin A plays a role in pathways involved in the attachment of various

	pathogens which exploit this protein to gain entry into the erythrocytes. These interactions highlight the protein’s significance within the hematological cellular environment and immune response mechanisms.
Associated diseases and disorders	Glycophorin A is associated with conditions affecting red blood cells such as hereditary spherocytosis and malaria. Hereditary spherocytosis involves abnormalities in erythrocyte membrane proteins where glycophorin A alongside proteins like ankyrin and spectrin can show altered expression or function leading to morphological changes in red blood cells. In malaria the Plasmodium parasite exploits glycophorin A for entry into red blood cells where mutations in glycophorin A can confer some resistance to infection. Understanding its role in these conditions underlines the protein's importance in both physiological and pathological contexts.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

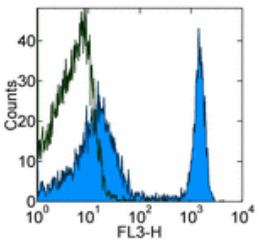
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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Terms & Conditions.

1 product image



Flow Cytometry - PE/Cy5® Anti-Ly76 antibody [TER-119] (ab95823)

Ly76 Flow Cytometry staining using rat Anti-Ly76 antibody

Flow cytometry staining of C57Bl/6 bone marrow cells with staining buffer (autofluorescence) (open histogram) or 0.125 µg of ab95823 (filled histogram). Total cells were used for analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.