abcam

ab247773

Anti-Plastin L antibody [EPR4278] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR4278
Purification technique	Affinity purification Protein A
Concentration	1.013 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information LCP1

Function	Actin-binding protein (PubMed:16636079, PubMed:17294403, PubMed:28493397). Plays a role in the activation of T-cells in response to costimulation through TCR/CD3 and CD2 or CD28 (PubMed:17294403). Modulates the cell surface expression of IL2RA/CD25 and CD69 (PubMed:17294403).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab247773 is the carrier-free version of ab109129.

Species reactivity

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

Compatibility

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.

Supplementary info

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

Activity summary	Plastin L also known as L-Plastin or plastine is a type of actin-bundling protein involved in regulating cytoskeletal rearrangements. This protein has a mass of approximately 70 kDa and serves an essential role in maintaining cell structure and mobility by cross-linking actin filaments. It is predominantly found in hematopoietic cells such as leukocytes but also expressed in certain non-hematopoietic cells. In zebrafish studies plastin L has been important for understanding its conservation and function across species.
Biological function summary	Plastin L participates in cellular processes such as phagocytosis cell motility and immune responses by stabilizing actin filaments. It does not form part of a larger protein complex but interacts with actin to perform its functions. As an actin-binding protein it helps in the formation and maintenance of the cytoskeleton impacting the cell's mechanical properties and response to external stimuli.
Pathways	Plastin L plays significant roles in immune cell signaling and cytoskeletal rearrangements. It is involved in pathways such as the immune response and cell adhesion where it contributes to leukocyte emigration and inflammation. Plastin L

	is functionally related to proteins like talin and paxillin which are key in mediating signal transduction resulting in cytoskeletal remodeling.
Associated diseases and disorders	Plastin L is associated with cancer and immune system disorders. Overexpression of plastin L correlates with various forms of cancer highlighting its role in tumor cell invasion and metastasis. Additionally it shows a connection with autoimmune conditions where deregulation of actin polymerization affects immune cell function. In these contexts proteins like cofilin interact with plastin L to modulate actin dynamics and cellular responses.

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

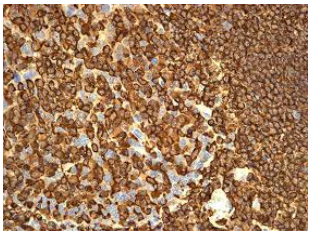
We do not recommend this combination. It is not covered by our product promise.

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.

Full details and terms and conditions can be found here:
Terms & Conditions.

3 product images

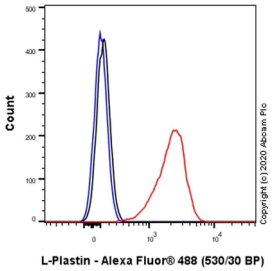


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Plastin L antibody [EPR4278] - BSA and Azide free (ab247773)

Plastin L Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Plastin L antibody

This data was developed using ab109129, the same antibody clone in a different buffer formulation.

Immunohistochemical staining of paraffin-embedded Human tonsil tissue using ab109129 at a dilution of 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

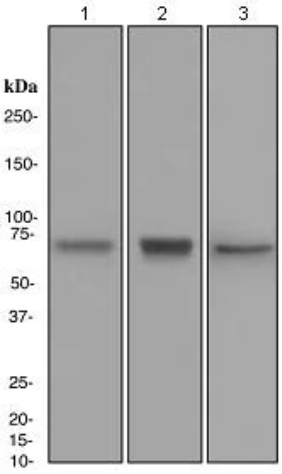


Flow Cytometry (Intracellular) - Anti-Plastin L antibody [EPR4278] - BSA and Azide free (ab247773)

Plastin L Flow Cytometry (Intracellular) staining using rabbit Anti-Plastin L antibody

This data was developed using ab109129, the same antibody clone in a different buffer formulation.

Flow Cytometry analysis of MDA-MB-435S (Human mammary gland ductal carcinoma melanocyte) cells labeling Plastin L with purified ab109129 at 1/1000 dilution (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).



Western blot - Anti-Plastin L antibody [EPR4278] - BSA and Azide free (ab247773)

This data was developed using ab109129, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Plastin L antibody [EPR4278] (ab109129) at 1/10000 dilution

Lane 1:
THP-1 cell lysate at 10 µg

Lane 2:
Jurkat cell lysate at 10 µg

Lane 3:
K562 cell lysate at 10 µg

Predicted band size: 70 kDa

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