


Product datasheet

Anti-ELMO1 antibody [EPR12919] - BSA and Azide free ab222227

Recombinant RabMAb

[5 Images](#)

Overview

Product name	Anti-ELMO1 antibody [EPR12919] - BSA and Azide free
Description	Rabbit monoclonal [EPR12919] to ELMO1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, ICC/IF, WB, Flow Cyt (Intra) Unsuitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human placenta and Jurkat lysates. ICC/IF: K562 cells
General notes	<p>ab222227 is the carrier-free version of ab174298.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12919
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab222227 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
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 84 kDa.
Flow Cyt (Intra)		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P.

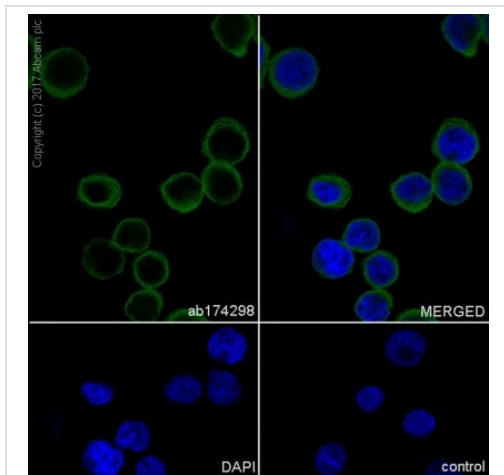
Target

Function	Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Acts in association with DOCK1 and CRK. Was initially proposed to be required in complex with DOCK1 to activate Rac Rho small GTPases. May enhance the guanine nucleotide exchange factor (GEF) activity of DOCK1.
Tissue specificity	Widely expressed, with a higher expression in the spleen and placenta.
Sequence similarities	Contains 1 ELMO domain. Contains 1 PH domain.
Post-translational modifications	Phosphorylated by HCK.

Cellular localization

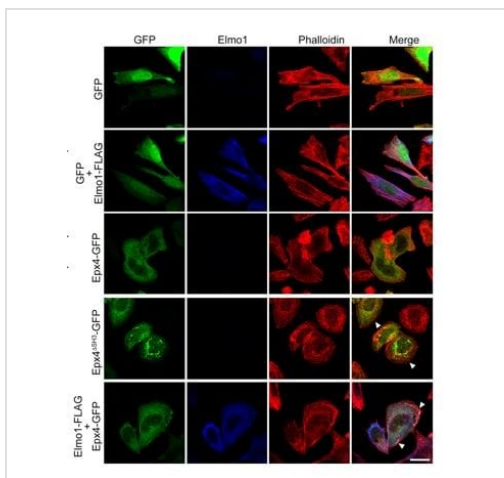
Cytoplasm. Cell membrane. Translocation to plasma membrane seems to be mediated by DOCK1 and CRK.

Images



Immunocytochemistry/ Immunofluorescence analysis of K562 labeling ELMO1 with ab222227 at 1/250 dilution. Goat anti rabbit IgG(Alexa Fluor® 488); **ab150077** at 1/1000 was used as the secondary antibody. Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. DAPI was used to counter stain nuclei (blue).

Immunocytochemistry/ Immunofluorescence - Anti-ELMO1 antibody [EPR12919] - BSA and Azide free (ab222227)



LR73 cells were transfected with the indicated plasmids and stained with Alexa Fluor 488–conjugated phalloidin and anti-Elmo1 antibody.

One day after transfection, cells were washed with cold PBS, fixed in 4% paraformaldehyde for 15 min, and permeabilized with 0.1% Triton X-100 for 5 min. Next, permeabilized cells were blocked with 1% BSA for 30 min and stained with Alex Fluor 594–conjugated phalloidin and anti-Elmo1 antibody for 1 h at room temperature.

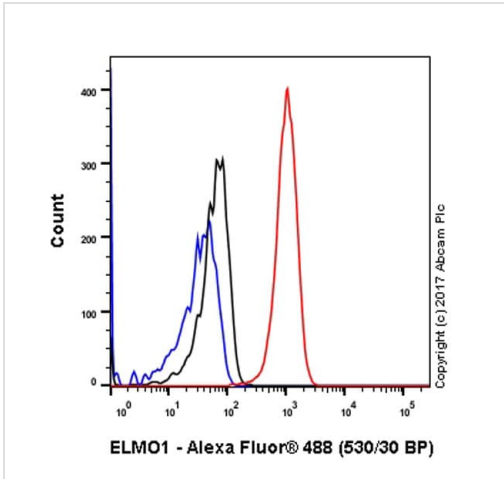
(After Figure 5 of Kim et al).

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Immunocytochemistry/ Immunofluorescence - Anti-ELMO1 antibody [EPR12919] - BSA and Azide free (ab222227)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab174298**).

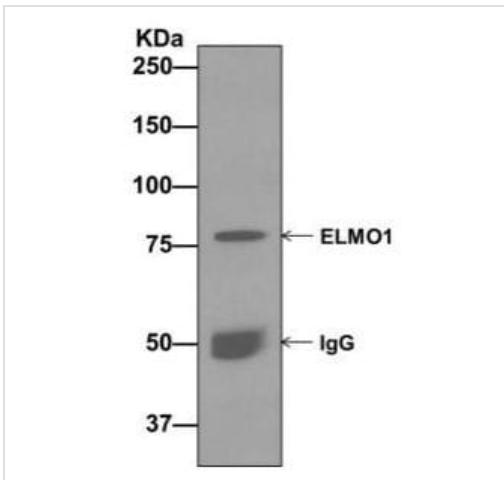
Kim, K. et al Sci Rep. 2017 Jun 30;7(1):4404. doi: 10.1038/s41598-017-04810-6



Flow Cytometry (Intracellular) - Anti-ELMO1 antibody [EPR12919] - BSA and Azide free (ab222227)

This Flow Cyt data was generated using the same anti-ELMO1 antibody clone, EPR12919, in a different buffer formulation (cat # **ab174298**).

Intracellular Flow Cytometry analysis of Jurkat (human acute T cell leukemia) cells labeling ELMO1 with unpurified **ab174298** at 1/200 dilution (1ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) (**ab172730**) was used as the isotype control, Cell without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunoprecipitation - Anti-ELMO1 antibody [EPR12919] - BSA and Azide free (ab222227)

This IP data was generated using the same anti-ELMO1 antibody clone, EPR12919, in a different buffer formulation (cat# **ab174298**). Western blot analysis on immunoprecipitation pellet from Jurkat cell lysate immunoprecipitated using **ab174298** at 1/10 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-ELMO1 antibody [EPR12919] - BSA and Azide free (ab222227)

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

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