

Product datasheet

Anti-Semaphorin 4D/CD100 antibody [EPR23866-69] ab275393

Recombinant RabMAb

[3 Images](#)

Overview

Product name	Anti-Semaphorin 4D/CD100 antibody [EPR23866-69]
Description	Rabbit monoclonal [EPR23866-69] to Semaphorin 4D/CD100
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, WB Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HDLM-2 whole cell lysate. Flow cyt: HDLM-2 cells.
General notes	<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 monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23866-69
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab275393 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
Flow Cyt		1/500.
WB		1/1000. Detects a band of approximately 140 kDa (predicted molecular weight: 96 kDa).

Application notes Is unsuitable for ICC/IF, IHC-P or IP.

Target

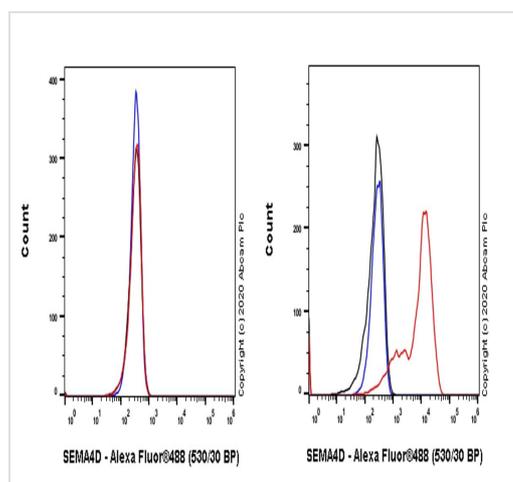
Function May play a functional role in the immune system, as well as in the nervous system. Induces B-cells to aggregate and improves their viability in vitro.

Tissue specificity Strongly expressed in skeletal muscle, peripheral blood lymphocytes, spleen, and thymus and also expressed at lower levels in testes, brain, kidney, small intestine, prostate, heart, placenta, lung and pancreas, but not in colon and liver.

Sequence similarities Belongs to the semaphorin family.
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 PSI domain.
Contains 1 Sema domain.

Cellular localization Membrane.

Images



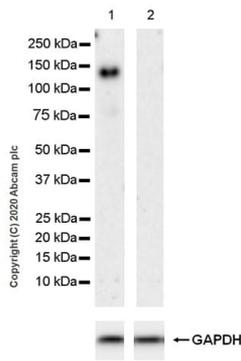
Flow Cytometry - Anti-Semaphorin 4D/CD100 antibody [EPR23866-69] (ab275393)

Flow cytometric analysis of PC-3 (human prostate adenocarcinoma epithelial cell, Left) / HDLM-2 (Human Hodgkin lymphoma, Right) cells labelling Semaphorin 4D/CD100 with ab275393 at 1/500 dilution (0.1 ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Negative control: PC-3 (PMID: 23775445).

Gated on viable cells.



Western blot - Anti-Semaphorin 4D/CD100 antibody [EPR23866-69] (ab275393)

All lanes : Anti-Semaphorin 4D/CD100 antibody [EPR23866-69] (ab275393) at 1/1000 dilution

Lane 1 : HDLM-2 (Human Hodgkin lymphoma) whole cell lysate

Lane 2 : PC-3 (human prostate adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20000 dilution

Predicted band size: 96 kDa

Observed band size: 140 kDa

Blocking and diluting buffer and concentration: 5% NFD/MTBST.

The expression profile observed is consistent with what has been described in the literature (PMID: 23775445).

Negative control: PC-3 (PMID: 23775445)

Exposure time: 136 seconds.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Semaphorin 4D/CD100 antibody [EPR23866-69] (ab275393)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors