

Anti-Semaphorin 4D/CD100 antibody [EPR23866-69] - BSA and Azide free ab275401

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Semaphorin 4D/CD100 antibody [EPR23866-69] - BSA and Azide free
Description	Rabbit monoclonal [EPR23866-69] to Semaphorin 4D/CD100 - BSA and Azide free
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>ab275401 is the carrier-free version of ab275393.</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 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.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23866-69
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab275401 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

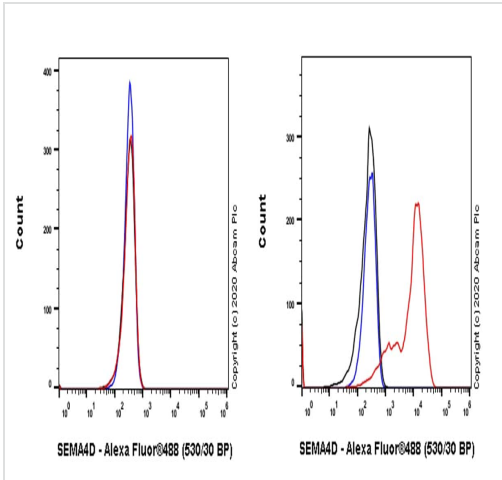
Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 140 kDa (predicted molecular weight: 96 kDa).

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] - BSA and Azide free (ab275401)

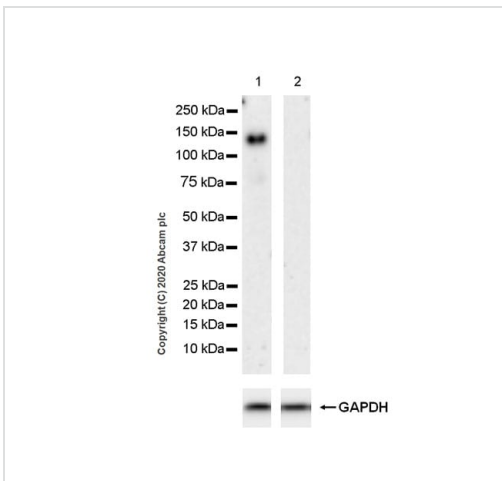
This data was developed using **ab275393**, the same antibody clone in a different buffer formulation.

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 µg) (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] - BSA and Azide free (ab275401)

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

This data was developed using **ab275393**, the same antibody clone in a different buffer formulation.


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?



- 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-Semaphorin 4D/CD100 antibody [EPR23866-69]
- BSA and Azide free (ab275401)

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

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