

Product datasheet

Anti-ADAMTS1 antibody [EPR23324-45] ab276133

Recombinant RabMAb

[1 References](#) [4 Images](#)

Overview

Product name	Anti-ADAMTS1 antibody [EPR23324-45]
Description	Rabbit monoclonal [EPR23324-45] to ADAMTS1
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: 4T1 whole cell lysate; Mouse E17 embryo lysate; Mouse kidney lung tissue lysates. Flow Cyt (intra): 4T1 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 (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23324-45
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab276133 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

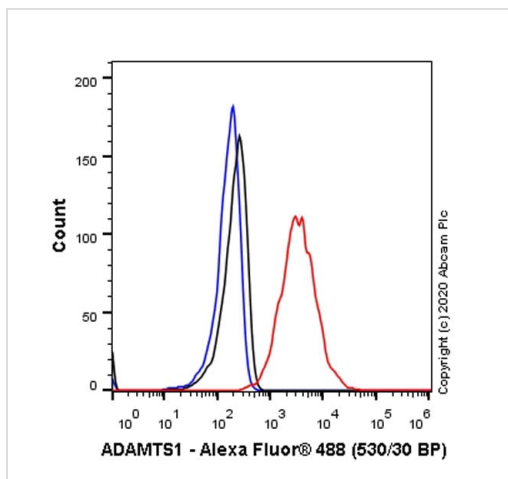
Application	Abreviews	Notes
Flow Cyt (Intra)		1/500.
WB		1/1000. Predicted molecular weight: 105 kDa.

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

Target

Function	Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover (By similarity). Has angiogenic inhibitor activity. Active metalloprotease, which may be associated with various inflammatory processes as well as development of cancer cachexia. May play a critical role in follicular rupture.
Sequence similarities	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain. Contains 3 TSP type-1 domains.
Domain	The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix. The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.
Post-translational modifications	The precursor is cleaved by a furin endopeptidase.
Cellular localization	Secreted > extracellular space > extracellular matrix.

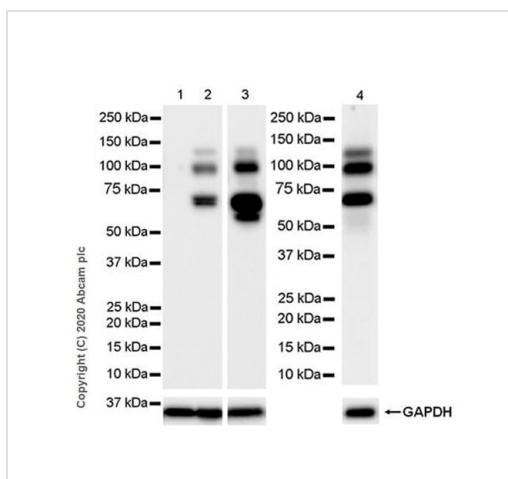
Images



Flow Cytometry (Intracellular) - Anti-ADAMTS1 antibody [EPR23324-45] (ab276133)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized 4T1 (mouse mammary gland carcinoma epithelial cell) cells labelling ADAMTS1 with ab276133 at 1/500 dilution (0.1ug) (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).

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



Western blot - Anti-ADAMTS1 antibody [EPR23324-45] (ab276133)

All lanes : Anti-ADAMTS1 antibody [EPR23324-45] (ab276133) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse E17 embryo tissue lysate

Lane 3 : Mouse kidney tissue lysate

Lane 4 : Mouse lung tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 105 kDa

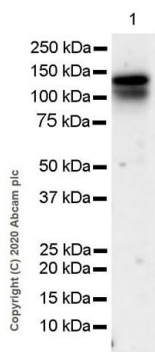
Observed band size: 100,120,60-70 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

The molecular weight observed are consistent with what have been described in literatures (PMID: 17560840, 23289900, 15184385, 12907688).

Low expression: mouse brain (PMID: 11108265).

Exposure time: 15 seconds.



Western blot - Anti-ADAMTS1 antibody [EPR23324-45] (ab276133)

Anti-ADAMTS1 antibody [EPR23324-45] (ab276133) at 1/1000 dilution + 4T1 (mouse mammary gland carcinoma epithelial cell) whole cell fresh lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution
(Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 105 kDa

Observed band size: 100,120 kDa

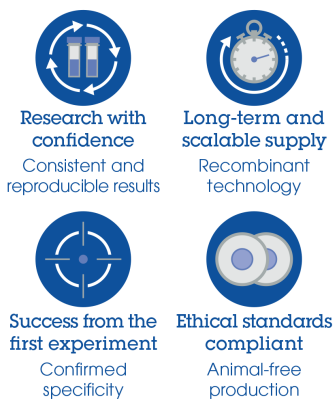
Blocking and diluting buffer and concentration: 5% NFDm/TBST.

The molecular weight observed are consistent with what have been described in literatures (PMID: 17560840, 23289900, 15184385, 12907688).

4T1 whole cell lysate is made freshly and used in WB test immediately to minimize protein degradation.

Exposure time: 92 seconds.

Why choose a recombinant antibody?



Anti-ADAMTS1 antibody [EPR23324-45] (ab276133)

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