




Product datasheet

Anti-ADAMTS4 antibody ab185722

★★★★★ [4 Abreviews](#) [59 References](#) [2 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-ADAMTS4 antibody |
| Description | Rabbit polyclonal to ADAMTS4 |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, ICC/IF |
| Species reactivity | Reacts with: Mouse, Rat, Human Predicted to work with: Cow, Orangutan  |
| Immunogen | Recombinant fragment corresponding to Human ADAMTS4 aa 50-350. Database link: O75173  Run BLAST with  Run BLAST with |
| Positive control | WB: SH-SY5Y, A-549, SKOV3, 293T cell lysates, mouse and brain tissue lysates. ICC/ IF: C6 cells. |
| General notes | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 | pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab185722 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 |
|-------------|-----------|---|
| WB | ★★★★★ (2) | 1/500 - 1/2000. Predicted molecular weight: 90 kDa. |
| ICC/IF | ★★★★★ (1) | 1/50 - 1/200. |

Target

Function

Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the '392-Glu-Ala-393' site.

Tissue specificity

Expressed in brain, lung and heart. Expressed at very low level in placenta and skeletal muscles.

Sequence similarities

Contains 1 disintegrin domain.
Contains 1 peptidase M12B domain.
Contains 1 TSP type-1 domain.

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.

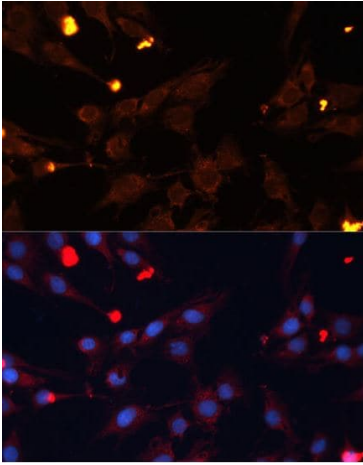
Post-translational modifications

The precursor is cleaved by a furin endopeptidase.

Cellular localization

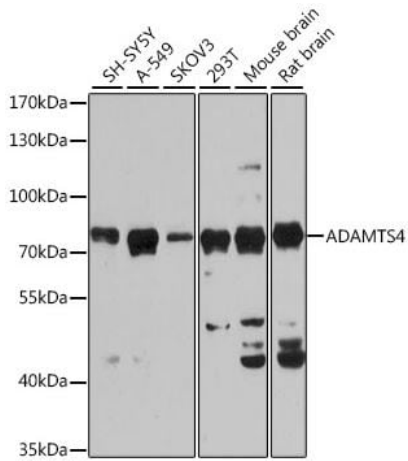
Secreted > extracellular space > extracellular matrix.

Images



Immunocytochemistry/ Immunofluorescence - Anti-ADAMTS4 antibody (ab185722)

Immunofluorescence staining of C6 cells stained for ADAMTS4 with ab185722 at 1/100 dilution. Nuclei are labeled with DAPI (Blue).



Western blot - Anti-ADAMTS4 antibody (ab185722)

All lanes : Anti-ADAMTS4 antibody (ab185722) at 1/3000 dilution

Lane 1 : SH-SY5Y cell lysate

Lane 2 : A-549 cell lysate

Lane 3 : SKOV3 cell lysate

Lane 4 : 293T cell lysate

Lane 5 : Mouse brain tissue lysate

Lane 6 : Rat brain tissue lysate

Lysates/proteins at 25 µg per lane.

Secondary

All lanes : HRP Goat Anti-Rabbit IgG (H+L)

Developed using the ECL technique.

Predicted band size: 90 kDa

Exposure time: 30 seconds

Blocking buffer: 3% nonfat dry milk in TBST.

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