

## Product datasheet

# Anti-ADAMTS4 antibody ab84792

[11 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-ADAMTS4 antibody
<b>Description</b>	Rabbit polyclonal to ADAMTS4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide from the C-terminal of Human ADAMTS4 (NM_005099).
<b>Positive control</b>	IHC-P: Human brain tissue. WB: Human fetal brain lysates.
<b>General notes</b>	<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&amp;As</p>

### Properties

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<b>Form</b>	Lyophilized:Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide
<b>Purity</b>	Protein A/G purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab84792 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		1/200 - 1/500. Detects a band of approximately 90 kDa (predicted molecular weight: 90 kDa).
IHC-P		1/100 - 1/500.

## 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.

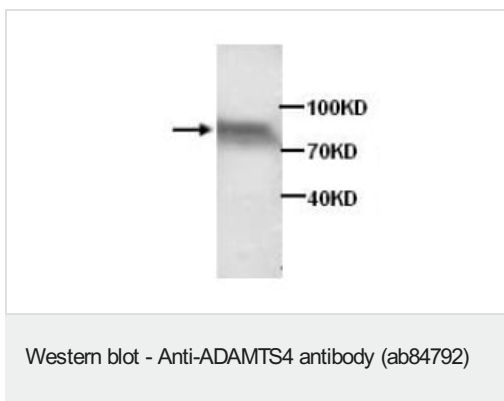
### Post-translational modifications

The precursor is cleaved by a furin endopeptidase.

### Cellular localization

Secreted > extracellular space > extracellular matrix.

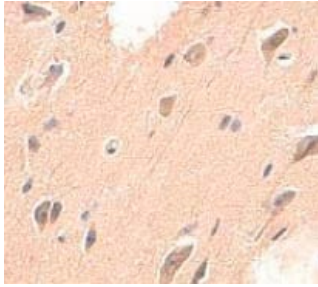
## Images



Anti-ADAMTS4 antibody (ab84792) at 1/1000 dilution + Human fetal brain lysates

**Predicted band size:** 90 kDa

**Observed band size:** 90 kDa



ab84792 at a 1/200 dilution staining ADAMTS4 in Human brain tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS4 antibody (ab84792)

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

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