

Recombinant Human ADAMTS4 protein ab132081

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Description

Product name	Recombinant Human ADAMTS4 protein		
Expression system	Wheat germ		
Accession	<u>O75173</u>		
Protein length	Protein fragment		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	MSQTGSHPGRGLAGRWLWGAQPCLLLPVPLSWLVWLLL LLLASLLPSAR LASPLPREEEVFPEKLNGSVLPGSGAPARLLCRLQAFGE TLLLELEQDS GVQVEGLTVQYLGQAPELLGGAEPGYLTGTINGDPESVA SLHWDGGALL GVLQYRGAELHLQPLEGGTPNSAGGPGAHLRRKSPASG QGPMC�VKAPL GSPSPRPRRAKRFASLSRFVETLVVADDKMAAFHGAGLK RYLLTVMAAAA KAFKHPSIRNPVSLVVTRLVILGSGEEGPQVGPSAAQTLR SFCAWQRGLN TPEDSDPDHFDTAILFTRQVRPQSAPQAMHCTILRSATT		
Predicted molecular weight	62 kDa including tags		
Amino acids	1 to 339		
Tags	GST tag N-Terminus		

Specifications

Our **Abpromise guarantee** covers the use of **ab132081** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	Western blot
	ELISA

**Form** Liquid

## Preparation and Storage

**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 8.00  
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

**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.

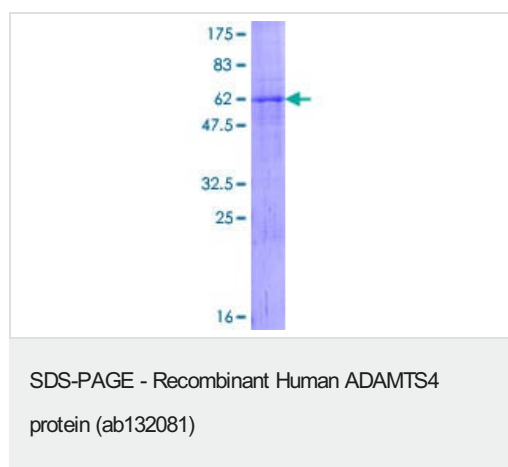
**Sequence similarities** Contains 1 disintegrin domain.  
Contains 1 peptidase M12B domain.  
Contains 1 TSP type-1 domain.

**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



12.5% SDS-PAGE analysis of ab132081 stained with Coomassie Blue.

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

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