

For Research Use Only

# ADAMTS4 Polyclonal antibody

Catalog Number: 11865-1-AP

18 Publications



## Basic Information

### Catalog Number:

11865-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2443

### GenBank Accession Number:

BC030812

### GeneID (NCBI):

9507

### UNIPROT ID:

O75173

### Full Name:

ADAM metalloproteinase with thrombospondin type 1 motif, 4

### Calculated MW:

837 aa, 90 kDa

### Observed MW:

90 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:300-1:600

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat, pig

### Positive Controls:

WB: mouse brain tissue,

IHC: human liver tissue, human colon cancer tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The ADAMTS (a disintegrin-like and metalloproteinase with thrombospondin motifs) is a family of extracellular metalloproteinases mediating diverse functions including matrix degradation, blood coagulation and angiogenesis. The ADAMTS family constitutes a group of proteins composed of 19 enzymes and 7 ADAMTS-like proteins. ADAMTS4 is a well-known proteoglycanase and has angiomodulatory properties. The 837 amino acid long human ADAMTS4 protein contains a long signal peptide, a prodomain, a metalloproteinase catalytic domain with zinc-binding motif, a disintegrin-like domain, a central TSR motif, followed by a cysteine-rich region with ten conserved cysteine residues, and a spacer domain. The full-length proform human ADAMTS4 (zymogen form) has been described to be 90 kDa. In extracellular matrix (ECM), ADAMTS4 undergoes further C-terminal cleavage at Lys694-Phe695 and Thr581-Phe582, respectively, to generate two other truncated forms-53 and 40 kDa (PMID:12202483).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yitong Zhao	36156740	J Bone Miner Metab	WB
Zi-Miao Liu	34372688	Bone Joint Res	WB, IHC
Biao Kuang	39442872	J Adv Res	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

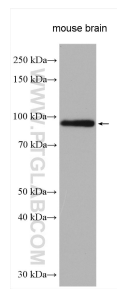
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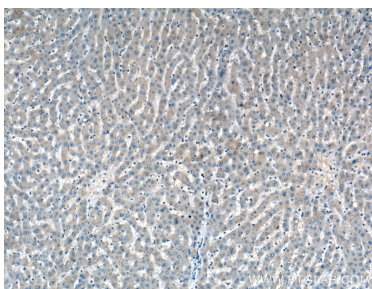
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## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 11865-1-AP (ADAMTS4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 11865-1-AP (ADAMTS4 antibody) at dilution of 1:200 (under 10x lens).