

**ADAMTS4 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8671b**

**Specification**

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**ADAMTS4 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">O75173</a>
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1, $\kappa$
Calculated MW	90197

**ADAMTS4 Antibody - Additional Information**

**Gene ID** 9507

**Other Names**

A disintegrin and metalloproteinase with thrombospondin motifs 4, ADAM-TS 4, ADAM-TS4, ADAMTS-4, 3.4.24.82, ADMP-1, Aggrecanase-1, ADAMTS4, KIAA0688

**Target/Specificity**

This ADAMTS4 antibody is generated from a mouse immunized with a recombinant protein from the human region of human ADAMTS4.

**Dilution**

WB~~1:8000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ADAMTS4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**ADAMTS4 Antibody - Protein Information**

**Name** ADAMTS4

**Synonyms** KIAA0688

**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-I-Ala-393' site.

#### **Cellular Location**

Secreted, extracellular space, extracellular matrix

#### **Tissue Location**

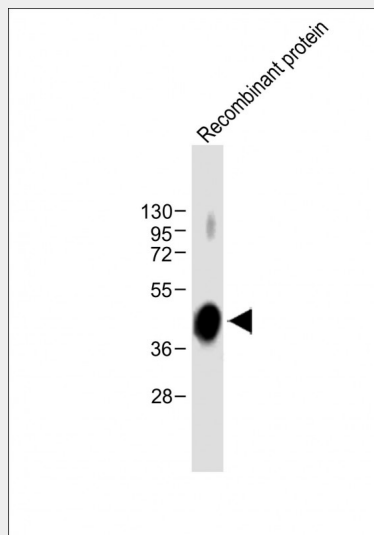
Expressed in brain, lung and heart (PubMed:23897278). Expressed at very low level in placenta and skeletal muscles (PubMed:23897278). Isoform 2: Detected in osteoarthritic synovium (PubMed:16723216, PubMed:23897278)

### **ADAMTS4 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **ADAMTS4 Antibody - Images**



Anti-ADAMTS4 Antibody at 1:8000 dilution + Recombinant protein Lysates/proteins at 20ng per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 90 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

### **ADAMTS4 Antibody - Background**

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.

#### **ADAMTS4 Antibody - References**

Tortorella M.D., et al. *Science* 284:1664-1666(1999).

Wainwright S.D., et al. *Matrix Biol.* 25:317-320(2006).

Sawaji Y., et al. Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.

Ishikawa K., et al. *DNA Res.* 5:169-176(1998).

Clark H.F., et al. *Genome Res.* 13:2265-2270(2003).