

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

ADAMTS4 Antibody - Product Information

Application	WB,E
Primary Accession	075173
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1, κ
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

E~~Use at an assay dependent concentration.

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, at the '392- Glu-|-Ala-393' site and may be involved in its turnover (PubMed:[10356395](#), PubMed:[10827174](#)). Also cleaves COMP (PubMed:[39672391](#)). May play an important role in the destruction of aggrecan in arthritic diseases. Could be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease.

Cellular Location

Secreted, extracellular space, extracellular matrix

Tissue Location

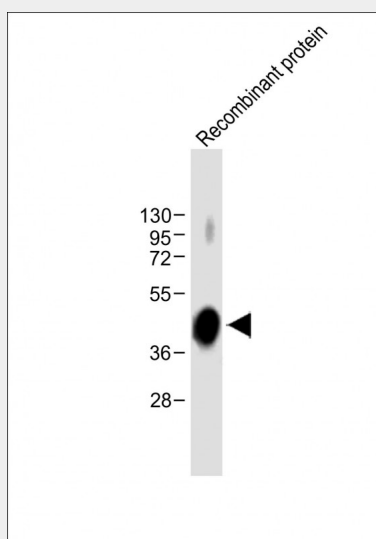
Expressed in brain, lung and heart (PubMed:23897278). Expressed at very low level in placenta and skeletal muscles (PubMed:23897278). Isoform 2: Detected in osteoarthritic synovium (PubMed:16723216, PubMed:23897278)

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% NFDm/TBST.

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).