

ADAMTS4 Antibody (Metalloprotease Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10911

Specification

ADAMTS4 Antibody (Metalloprotease Domain) - Product Information

Application	IHC
Primary Accession	O75173
Reactivity	Human, Monkey, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90kDa KDa

ADAMTS4 Antibody (Metalloprotease Domain) - 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

Human ADAMTS4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

ADAMTS4 Antibody (Metalloprotease Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

ADAMTS4 Antibody (Metalloprotease Domain) - 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-|-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)

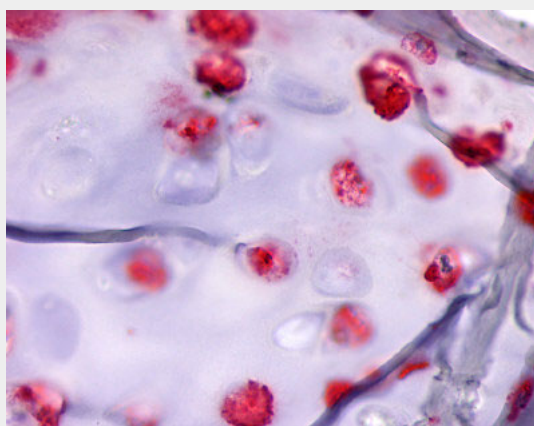
Volume
50 μ l

ADAMTS4 Antibody (Metalloprotease Domain) - Protocols

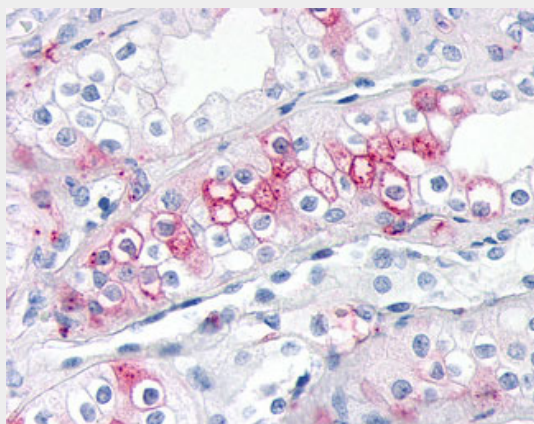
Provided below are standard protocols that you may find useful for product applications.

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

ADAMTS4 Antibody (Metalloprotease Domain) - Images



Anti-ADAMTS4 antibody ALS10911 IHC of human cartilage.



Anti-ADAMTS4 antibody IHC of human kidney.

ADAMTS4 Antibody (Metalloprotease Domain) - 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 (Metalloprotease Domain) - 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).