

**ADAMTS4 Antibody (Disintegrin-like Domain)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10912****Specification**

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**ADAMTS4 Antibody (Disintegrin-like Domain) - Product Information**

Application	IHC
Primary Accession	<a href="#">O75173</a>
Reactivity	Human, Mouse, Hamster, Monkey, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90kDa KDa

**ADAMTS4 Antibody (Disintegrin-like 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 (Disintegrin-like Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

**ADAMTS4 Antibody (Disintegrin-like 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

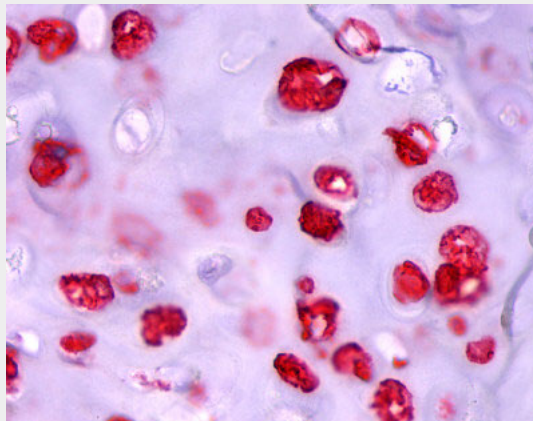
50  $\mu$ l

### ADAMTS4 Antibody (Disintegrin-like Domain) - Protocols

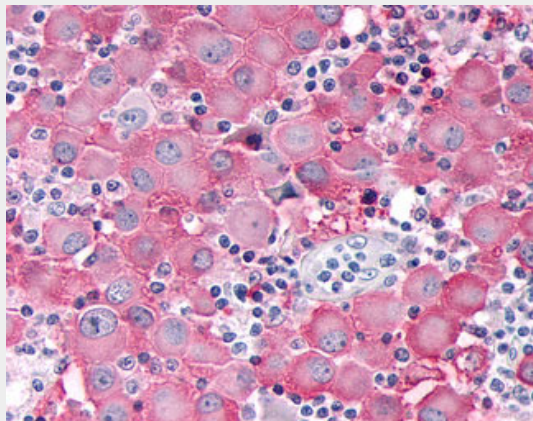
Provided below are standard protocols that you may find useful for product applications.

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

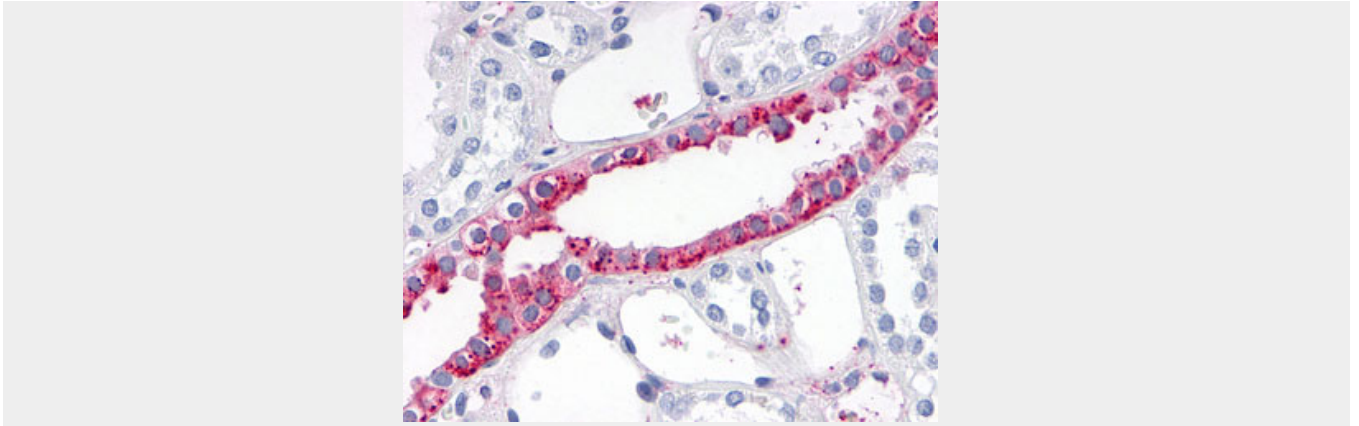
### ADAMTS4 Antibody (Disintegrin-like Domain) - Images



Anti-ADAMTS4 antibody ALS10912 IHC of human cartilage.



Anti-ADAMTS4 antibody IHC of human Skin, Melanoma.



Anti-ADAMTS4 antibody IHC of human kidney.

### **ADAMTS4 Antibody (Disintegrin-like 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 (Disintegrin-like 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).