

ADAMTS5 Antibody (Metalloprotease Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10909**Specification**

ADAMTS5 Antibody (Metalloprotease Domain) - Product Information

Application	IHC
Primary Accession	Q9UNA0
Reactivity	Human, Mouse, Hamster, Monkey, Horse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102kDa KDa

ADAMTS5 Antibody (Metalloprotease Domain) - Additional Information**Gene ID** 11096**Other Names**

A disintegrin and metalloproteinase with thrombospondin motifs 5, ADAM-TS 5, ADAM-TS5, ADAMTS-5, 3.4.24.-, A disintegrin and metalloproteinase with thrombospondin motifs 11, ADAM-TS 11, ADAMTS-11, ADMP-2, Aggrecanase-2, ADAMTS5, ADAMTS11, ADMP2

Target/Specificity

Human ADAMTS5. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

ADAMTS5 Antibody (Metalloprotease Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

ADAMTS5 Antibody (Metalloprotease Domain) - Protein Information**Name** ADAMTS5**Synonyms** ADAMTS11, ADMP2**Function**

Metalloproteinase that plays an important role in connective tissue organization, development, inflammation and cell migration. Extracellular matrix (ECM) degrading enzyme that show proteolytic activity toward the hyalectan group of chondroitin sulfate proteoglycans (CSPGs) including ACAN, VCAN, BCAN and NCAN (PubMed:16133547, PubMed:18992360). Cleavage within the hyalectans occurs at Glu-Xaa recognition motifs. Plays a role in embryonic development,

including limb and cardiac morphogenesis, and skeletal muscle development through its VCAN remodeling properties. Cleaves VCAN in the pericellular matrix surrounding myoblasts, facilitating myoblast contact and fusion which is required for skeletal muscle development and regeneration (By similarity). Participates in development of brown adipose tissue and browning of white adipose tissue (By similarity). Plays an important role for T-lymphocyte migration from draining lymph nodes following viral infection.

Cellular Location

Secreted, extracellular space, extracellular matrix

Tissue Location

Expressed at low level in placenta primarily but also detected in heart and brain, cervix, uterus, bladder, esophagus, rib cartilage, chondroblastoma, fibrous tissue and a joint capsule from an arthritic patient

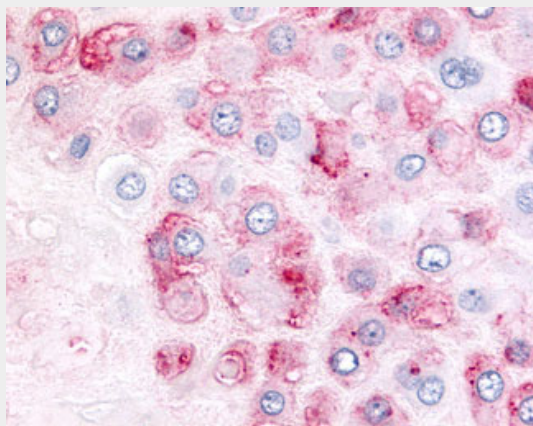
Volume

50 µl

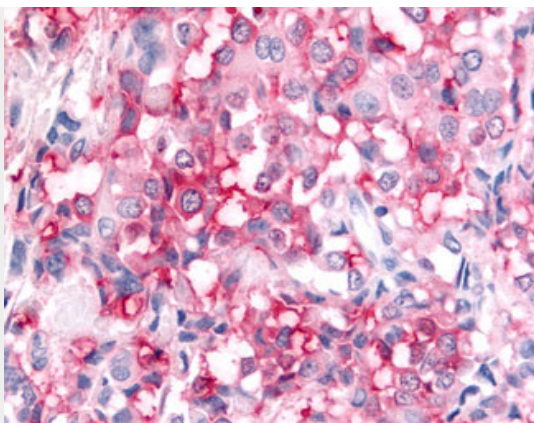
ADAMTS5 Antibody (Metalloprotease Domain) - Protocols

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

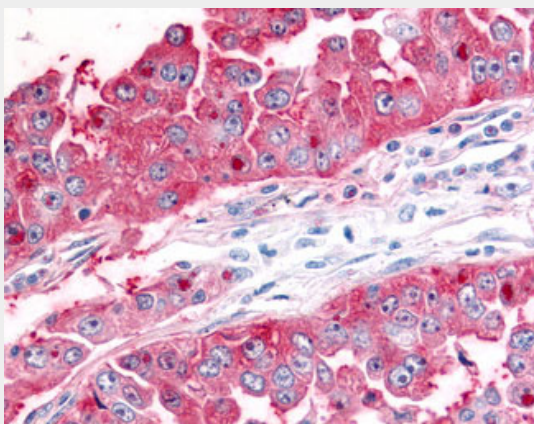
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ADAMTS5 Antibody (Metalloprotease Domain) - Images

Anti-ADAMTS5 antibody IHC of human placenta.



Anti-ADAMTS5 antibody IHC of human Breast, Carcinoma.



Anti-ADAMTS5 antibody IHC of human Lung, Non-Small Cell Carcinoma.

ADAMTS5 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. May play a role in proteolytic processing mostly during the peri-implantation period.

ADAMTS5 Antibody (Metalloprotease Domain) - References

Abbaszade I.,et al.J. Biol. Chem. 274:23443-23450(1999).
Hattori M.,et al.Nature 405:311-319(2000).
Hurskainen T.L.,et al.J. Biol. Chem. 274:25555-25563(1999).
Wang L.W.,et al.J. Biol. Chem. 284:30004-30015(2009).
Mosyak L.,et al.Protein Sci. 17:16-21(2008).