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ADAMTS5 Antibody (Internal)

Rabbit Polyclonal Antibody

Catalog # ALS10390

Specification

ADAMTS5 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	O9UNA0
Reactivity	**Human, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**102kDa KDa**

ADAMTS5 Antibody (Internal) - 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.

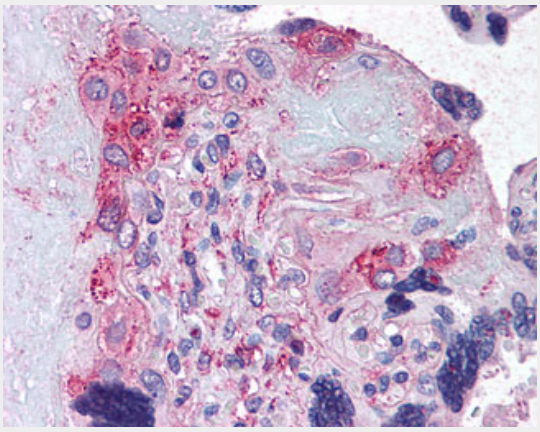
Reconstitution & Storage
Store at 4°C for short term applications. For long term storage, aliquot and store at -20°C.

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

ADAMTS5 Antibody (Internal) - Protein Information

Name ADAMTS5

Synonyms ADAMTS11, ADMP2



Anti-ADAMTS5 antibody ALS10390 IHC of human placenta.

ADAMTS5 Antibody (Internal) - 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 (Internal) - 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).

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 (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture