

ADAMTS5 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7447c**Specification**

ADAMTS5 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9UNA0
Other Accession	O9R001
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	101718
Antigen Region	331-360

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

A disintegrin and metalloproteinase with thrombospondin motifs 5, ADAM-TS 5, ADAM-TS5, ADAMTS-5, 3424-, A disintegrin and metalloproteinase with thrombospondin motifs 11, ADAM-TS 11, ADAMTS-11, ADMP-2, Aggrecanase-2, ADAMTS5, ADAMTS11, ADMP2

Target/Specificity

This ADAMTS5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 331-360 amino acids from the Central region of human ADAMTS5.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

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

ADAMTS5 Antibody (Center) - 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 hyaluronan group of chondroitin sulfate proteoglycans (CSPGs) including ACAN, VCAN, BCAN and NCAN (PubMed:[16133547](#), PubMed:[18992360](#)). Cleavage within the hyaluronans 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

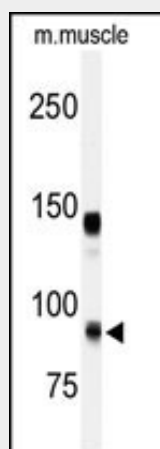
Tissue Location

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

ADAMTS5 Antibody (Center) - 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 (Center) - Images

Western blot analysis of anti-ADAMTS5 Antibody (Center) (Cat.#AP7447c) in mouse muscle tissue lysates (35ug/lane). ADAMTS5 (arrow) was detected using the purified Pab.

ADAMTS5 Antibody (Center) - Background

ADAMTS5 is a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains.

ADAMTS5 Antibody (Center) - References

Abbaszade I., Liu R.-Q.J. Biol. Chem. 274:23443-23450(1999) Hurskainen T.L., Hirohata S.J. Biol. Chem. 274:25555-25563(1999)