

Anti-ADAMTS2 Antibody
Catalog # ABO10780**Specification****Anti-ADAMTS2 Antibody - Product Information**

Application	WB, IHC
Primary Accession	O95450
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for A disintegrin and metalloproteinase with thrombospondin motifs 2(ADAMTS2) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ADAMTS2 Antibody - Additional Information

Gene ID 9509

Other Names

A disintegrin and metalloproteinase with thrombospondin motifs 2, ADAM-TS 2, ADAM-TS2, ADAMTS-2, 3.4.24.14, Procollagen I N-proteinase, PC I-NP, Procollagen I/II amino propeptide-processing enzyme, Procollagen N-endopeptidase, pNPI, ADAMTS2, PCINP, PCPNI

Calculated MW

134755 MW KDa

Application Details

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Rat, Human, Mouse
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Secreted, extracellular space, extracellular matrix .

Tissue Specificity

Expressed at high level in skin, bone, tendon and aorta and at low levels in thymus and brain.

Protein Name

A disintegrin and metalloproteinase with thrombospondin motifs 2(ADAM-TS 2/ADAM-TS2/ADAMTS-2)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human ADAMTS2(1189-1204aa KTRNQRIQELIDEMRK), different from the related rat and mouse sequences by three amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 disintegrin domain.

Anti-ADAMTS2 Antibody - Protein Information

Name ADAMTS2

Synonyms PCINP, PCPNI

Function

Cleaves the propeptides of type I and II collagen prior to fibril assembly (By similarity). Does not act on type III collagen (By similarity). Cleaves lysyl oxidase LOX at a site downstream of its propeptide cleavage site to produce a short LOX form with reduced collagen-binding activity (PubMed:31152061).

Cellular Location

Secreted, extracellular space, extracellular matrix

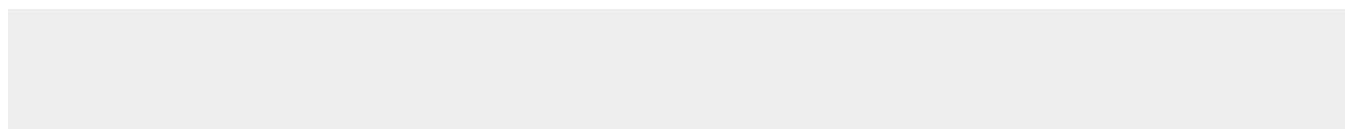
Tissue Location

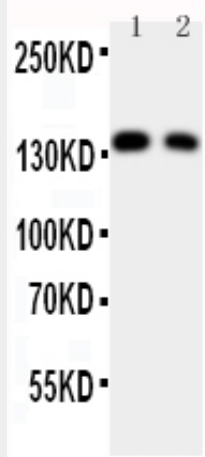
Expressed at high level in skin, bone, tendon and aorta and at low levels in thymus and brain

Anti-ADAMTS2 Antibody - Protocols

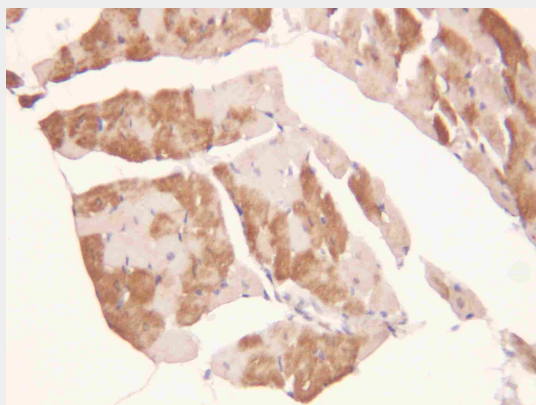
Provided below are standard protocols that you may find useful for product applications.

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

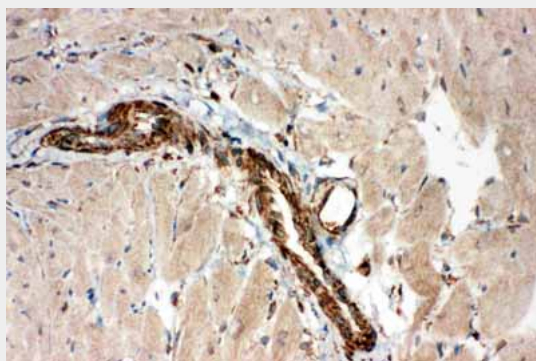
Anti-ADAMTS2 Antibody - Images



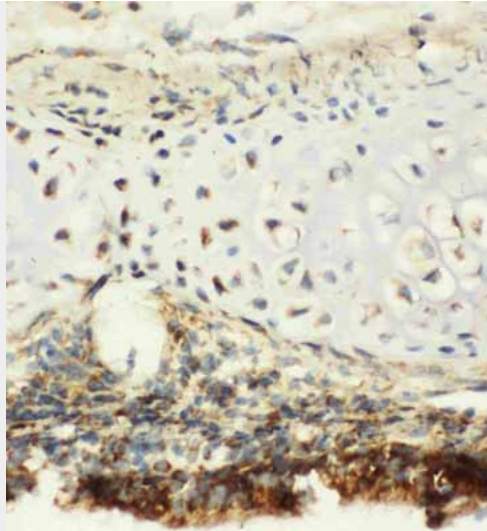
Anti-ADAMTS2 antibody, ABO10780, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Rat Heart Tissue Lysate



Anti-ADAMTS2 antibody, ABO10780, IHC(P)
IHC(P): Rat Cardiac Muscle Tissue



Anti-ADAMTS2 antibody, ABO10780, IHC(F)
IHC(F): Rat Cardiac Muscle Tissue



Anti-ADAMTS2 antibody, ABO10780, IHC(F)IHC(F): Rat Trachea Tissue

Anti-ADAMTS2 Antibody - Background

ADAMTS2, A disintegrin and metalloproteinase with thrombospondin motifs 2, also known as procollagen I N-proteinase(PC I-NP), is an enzyme that in humans is encoded by the ADAMTS2 gene. The ADAMTS2 gene contains 22 exons. The human ADAMTS2 gene is mapped to chromosome 5q23-q24 by analysis of somatic cell hybrids. ADAMTS2 is responsible for processing several types of procollagen proteins. Procollagens are the precursors of collagens, the proteins that add strength and support to many body tissues. Specifically, this enzyme clips a short chain of amino acids off one end of the procollagen. This clipping step is necessary for collagen molecules to function normally and assemble into fibrils outside cells.