

Anti-ADAMTS1 Antibody
Catalog # ABO11377**Specification**

Anti-ADAMTS1 Antibody - Product Information

Application	WB
Primary Accession	P97857
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for A disintegrin and metalloproteinase with thrombospondin motifs 1 (ADAMTS1) detection. Tested with WB in Mouse; Rat.

Reconstitution

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

Anti-ADAMTS1 Antibody - Additional Information

Gene ID 11504

Other Names

A disintegrin and metalloproteinase with thrombospondin motifs 1, ADAM-TS 1, ADAM-TS1, ADAMTS-1, 3.4.24.-, Adamts1

Calculated MW

105801 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Rat, Mouse

Subcellular Localization

Secreted, extracellular space, extracellular matrix.

Protein Name

A disintegrin and metalloproteinase with thrombospondin motifs 1

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 mouse ADAMTS1(956-968aa KHYIDFCTLTQCS), different from the related rat sequence by one amino acid, and from the related human sequence by four 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-ADAMTS1 Antibody - Protein Information

Name Adamts1

Function

Cleaves aggrecan, a cartilage proteoglycan, at the '1691- Glu-|-Leu-1692' site (within the chondroitin sulfate attachment domain), and may be involved in its turnover. Has angiogenic inhibitor activity (By similarity). Active metalloprotease, which may be associated with various inflammatory processes as well as development of cancer cachexia. May play a critical role in follicular rupture (By similarity).

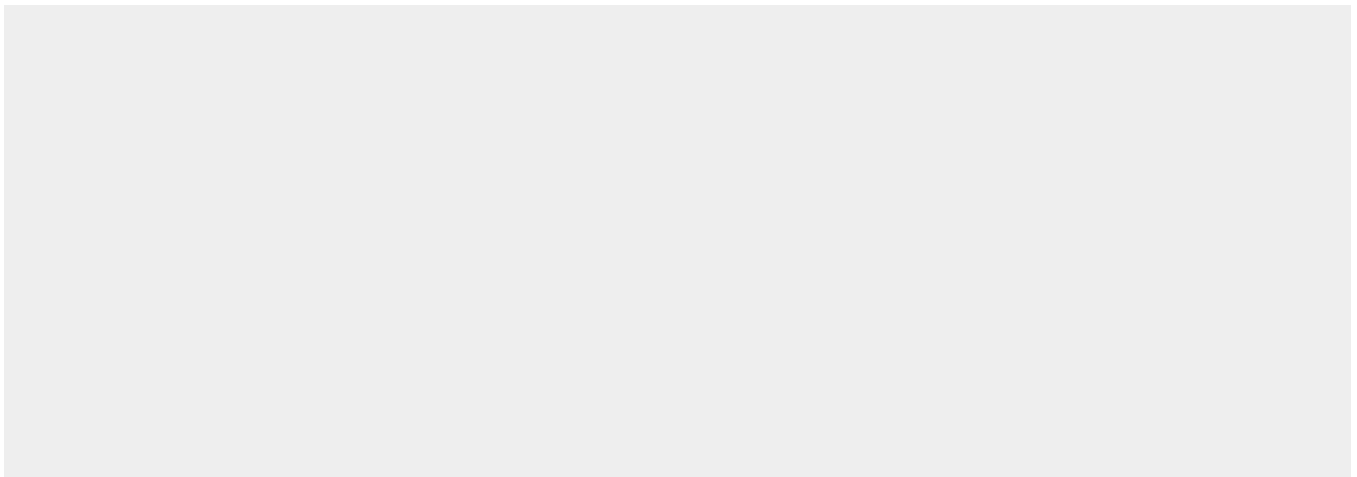
Cellular Location

Secreted, extracellular space, extracellular matrix

Anti-ADAMTS1 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-ADAMTS1 Antibody - Images



Anti-ADAMTS1 antibody, ABO11377, Western blotting All lanes: Anti ADAMTS1 (ABO11377) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 50ug
Lane 2: Rat Heart Tissue Lysate at 50ug
Lane 3: Rat Brain Tissue Lysate at 50ug
Predicted bind size: 105KD
Observed bind size: 105KD

Anti-ADAMTS1 Antibody - Background

A disintegrin and metalloproteinase with thrombospondin motifs 1 is an enzyme that in humans is encoded by the ADAMTS1 gene. This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) 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. The protein encoded by this gene contains two disintegrin loops and three C-terminal TS motifs and has anti-angiogenic activity. The expression of this gene may be associated with various inflammatory processes as well as development of cancer cachexia. This gene is likely to be necessary for normal growth, fertility, and organ morphology and function.