

# Anti-ADAMTS1 Antibody

Catalog # ABO11377

#### Specification

### Anti-ADAMTS1 Antibody - Product Information

ApplicationWBPrimary AccessionP97857HostRabbitReactivityMouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit lgG polyclonal antibody for A disintegrin and metalloproteinase with thrombospondin motifs1(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<br>

**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 r°Constitution, 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

Metalloprotease which 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 (PubMed:<a href="http://www.uniprot.org/citations/10930576" target="\_blank">10930576</a>, PubMed:<a href="http://www.uniprot.org/citations/9441751" target="\_blank">9441751</a>). Also cleaves COMP (By similarity). Has angiogenic inhibitor activity (By similarity). May play a critical role in follicular rupture (PubMed:<a href="http://www.uniprot.org/citations/10781075" target="\_blank">10781075" target="\_blank">10781075</a>).

**Cellular Location** Secreted, extracellular space, extracellular matrix

#### **Anti-ADAMTS1 Antibody - Protocols**

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-ADAMTS1 Antibody - Images



Anti-ADAMTS1 antibody, ABO11377, Western blottingAll lanes: Anti ADAMTS1 (ABO11377) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Heart Tissue Lysate at 50ugLane 3: Rat Brain Tissue Lysate at 50ugPredicted bind size: 105KDObserved 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.