

## ARG57963 anti-ADAMTS1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes ADAMTS1  |
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | ICC/IF, WB   |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | ADAMTS1  |
| Species             | Human  |
| Immunogen           | Recombinant fusion protein corresponding to aa. 718-967 of Human ADAMTS1 (NP_008919.3).  |
| Conjugation         | Un-conjugated  |
| Alternate Names     | ADAMTS-1; A disintegrin and metalloproteinase with thrombospondin motifs 1; METH-1; METH1; EC 3.4.24.-; ADAM-TS1; C3-C5; ADAM-TS 1 |

### Application Instructions

| Application table | Application  | Dilution       |
|-------------------|--|----------------|
|                   | ICC/IF   | 1:50 - 1:200   |
|                   | WB   | 1:200 - 1:2000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | Mouse liver  |                |
| Observed Size     | 105 kDa  |                |

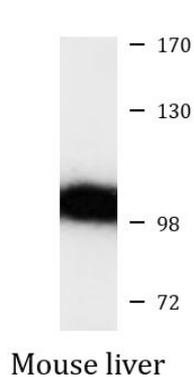
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.  |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

## Bioinformation

|                       |   |
|-----------------------|---|
| Gene Symbol           | ADAMTS1   |
| Gene Full Name        | ADAM metalloproteinase with thrombospondin type 1 motif, 1  |
| Background            | 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. [provided by RefSeq, Jul 2008] |
| Function              | Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover (By similarity). Has angiogenic inhibitor activity. 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. [UniProt]  |
| Calculated Mw         | 105 kDa   |
| PTM                   | The precursor is cleaved by a furin endopeptidase.<br><br>Glycosylated. Can be O-fucosylated by POFUT2 on a serine or a threonine residue found within the consensus sequence C1-X(2)-(S/T)-C2-G of the TSP type-1 repeat domains where C1 and C2 are the first and second cysteine residue of the repeat, respectively. Fucosylated repeats can then be further glycosylated by the addition of a beta-1,3-glucose residue by the glucosyltransferase, B3GALTL. Fucosylation mediates the efficient secretion of ADAMTS family members. Also can be C-glycosylated with one or two mannose molecules on tryptophan residues within the consensus sequence W-X-X-W of the TPRs, and N-glycosylated. These other glycosylations can also facilitate secretion (By similarity). [UniProt]   |
| Cellular Localization | Secreted, extracellular matrix, extracellular space. [UniProt]  |

## Images



ARG57963 anti-ADAMTS1 antibody WB image

Western blot: 25 µg of Mouse liver lysate stained with ARG57963 anti-ADAMTS1 antibody at 1:1000 dilution.