

## Rabbit ADAMTS5 Polyclonal Antibody | anti-ADAMTS5 antibody

ADAMTS5 Antibody

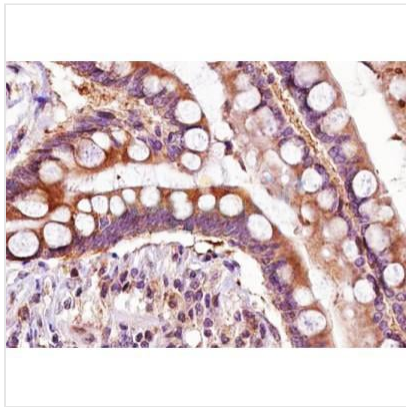
| CATALOG # | HOST   | REACTIVITY                                                                                                                                          | APPLICATIONS |
|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| AAA328908 | Rabbit | Human, Mouse, Rat<br>Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%) | ELISA        |

### PRODUCT SYNONYMS

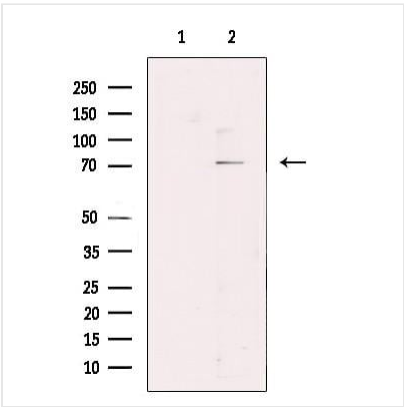
ADAMTS5; Polyclonal Antibody; ADAMTS5 Antibody; A disintegrin and metalloproteinase with thrombospondin motifs 11; A disintegrin and metalloproteinase with thrombospondin motifs 5; A disintegrin like and metalloprotease (reprolysin type) with thrombospondin type 1 motif 5; A disintegrin like and metalloprotease (reprolysin type) with thrombospondin type 1 motif; 5 (aggrecanase 2); A disintegrin-like and metalloprotease with thrombospondin type 1 motif; 5; A Disintegrin And Metalloproteinase with ThromboSpondin motif-5; ADAM metallopeptidase with thrombospondin type 1 motif 5; ADAM TS 11; ADAM TS 5; ADAM TS5; ADAM-TS 11; ADAM-TS 5; ADAM-TS5; ADAMTS 11; ADAMTS 5; ADAMTS-11; ADAMTS-5; ADAMTS11; formerly; Adamts5; ADMP 2; ADMP-2; ADMP2; Aggrecanase 2; Aggrecanase-2; ATS5\_HUMAN; FLJ36738; Implantin; ThromboSpondin motif-5; anti-ADAMTS5 antibody

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                              |
| Reactivity                                        | Human, Mouse, Rat<br>Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%) |
| Clonality                                         | Polyclonal                                                                                                                                          |
| Isotype                                           | IgG                                                                                                                                                 |
| Specificity                                       | ADAMTS5 Antibody detects endogenous levels of total ADAMTS5.                                                                                        |
| Purity/Purification                               | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).                            |
| Form/Format                                       | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol                                             |
| Concentration                                     | 1mg/ml (varies by lot)                                                                                                                              |
| Sequence Length                                   | 930                                                                                                                                                 |
| Applicable Applications for anti-ADAMTS5 antibody | ELISA                                                                                                                                               |
| Immunogen                                         | A synthesized peptide derived from human ADAMTS5, corresponding to a region within the internal amino acids.                                        |
| Fragment                                          | Fab fragment                                                                                                                                        |
| Preparation and Storage                           | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                   |



**IHC (Immunohistochemistry)**  
AAA328908 at 1/100 staining Human colon carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis on Mouse brain lysates using ADAMTS5 antibody. The lane on the left was treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

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| <b>Related Product Information for anti-ADAMTS5 antibody</b> | <p><b>Function:</b> Metalloproteinase that plays an important role in connective tissue organization, development, inflammation, arthritis, and cell migration. ADAMTS5 is an extracellular matrix (ECM) degrading enzyme that show proteolytic activity toward the hyaluronan group of chondroitin sulfate proteoglycans (CSPGs) including aggrecan, versican, brevican and neurocan (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 versican remodeling properties. Participates in development of brown adipose tissue and browning of white adipose tissue. Plays an important role for T-lymphocyte migration from draining lymph nodes following viral infection.</p> <p><b>Post Translational Modifications:</b> The precursor is cleaved by furin and PCSK7 outside of the cell. C- and O-glycosylated. 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 can mediate the efficient secretion of ADAMTS family members. 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). 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).</p> <p><b>Subcellular Location:</b> Secreted&gt;Extracellular space&gt;Extracellular matrix.</p> <p><b>Tissue Specificity:</b> 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.</p> <p><b>Similarity:</b> The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix. The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.</p> |
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NCBI AND UNIPROT INFORMATION

|             |           |
|-------------|-----------|
| NCBI GI #   | 317373326 |
| NCBI GeneID | 11096     |

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|----------------------------------|-----------------------------------------------------------------------------------------------|
| UniProt Accession #              | <a href="#">Q9UNA0</a>                                                                        |
| Molecular Weight                 | Observed Molecular Weight: (Observed)72kD.<br>Predicted Molecular Weight: (Calculated)102kDa. |
| NCBI Official Full Name          | A disintegrin and metalloproteinase with thrombospondin motifs 5                              |
| NCBI Official Synonym Full Names | ADAM metalloproteinase with thrombospondin type 1 motif 5                                     |
| NCBI Official Symbol             | ADAMTS5                                                                                       |
| NCBI Official Synonym Symbols    | ADMP-2; ADAM-TS5; ADAMTS-5; ADAMTS11; ADAM-TS 5; ADAMTS-11; ADAM-TS 11                        |
| NCBI Protein Information         | A disintegrin and metalloproteinase with thrombospondin motifs 5                              |
| UniProt Protein Name             | A disintegrin and metalloproteinase with thrombospondin motifs 5                              |
| UniProt Gene Name                | <b>ADAMTS5</b>                                                                                |
| UniProt Synonym Gene Names       | ADAMTS11; ADMP2; ADAM-TS 5; ADAM-TS5; ADAMTS-5; ADAM-TS 11; ADAMTS-11                         |
| UniProt Entry Name               | ATS5_HUMAN                                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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