

## Anti-ADAMTS-7 antibody

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| <b>Description</b>        | Rabbit polyclonal to ADAMTS-7.                                                                                                                                      |
| <b>Model</b>              | STJ91482                                                                                                                                                            |
| <b>Host</b>               | Rabbit                                                                                                                                                              |
| <b>Reactivity</b>         | Human                                                                                                                                                               |
| <b>Applications</b>       | ELISA, IHC                                                                                                                                                          |
| <b>Immunogen</b>          | Synthesized peptide derived from human ADAMTS-7                                                                                                                     |
| <b>Immunogen Region</b>   | 150-230 aa, Internal                                                                                                                                                |
| <b>Gene ID</b>            | <a href="#">11173</a>                                                                                                                                               |
| <b>Gene Symbol</b>        | <a href="#">ADAMTS7</a>                                                                                                                                             |
| <b>Dilution range</b>     | IHC 1:100-1:300ELISA 1:40000                                                                                                                                        |
| <b>Specificity</b>        | ADAMTS-7 Polyclonal Antibody detects endogenous levels of ADAMTS-7 protein.                                                                                         |
| <b>Tissue Specificity</b> | Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Detected in meniscus, bone, tendon, cartilage, synovium, fat and ligaments. |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                               |
| <b>Note</b>               | For Research Use Only (RUO).                                                                                                                                        |
| <b>Protein Name</b>       | A disintegrin and metalloproteinase with thrombospondin motifs 7 ADAM-TS<br>7 ADAM-TS7 ADAMTS-7 COMPase                                                             |

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| <b>Molecular Weight</b>                 | 109.695 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality</b>                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Conjugation</b>                      | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Formulation</b>                      | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>                    | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Database Links</b>                   | <a href="#">HGNC:223OMIM:605009</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Alternative Names</b>                | A disintegrin and metalloproteinase with thrombospondin motifs 7 ADAM-TS<br>7 ADAM-TS7 ADAMTS-7 COMPase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>                         | Metalloprotease that may play a role in the degradation of COMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence and Domain Family</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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cellular Localization</b>            | Secreted, extracellular space, extracellular matrix. Also found associated with the external cell surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Post-translational Modifications</b> | N-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. N- and C-glycosylations can also facilitate secretion. O-glycosylated proteoglycan. Contains chondroitin sulfate. May be cleaved by a furin endopeptidase . The precursor is sequentially processed. |