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| <b>Product name:</b>  | ADAMTS-7 Rabbit Polyclonal Antibody                                                          |
| <b>Cat number:</b>    | ABN06602                                                                                     |
| <b>Conjugate:</b>     | Unconjugated                                                                                 |
| <b>Size:</b>          | 100µL                                                                                        |
| <b>Clone:</b>         | Polyclonal                                                                                   |
| <b>Concentration:</b> | 1mg/ml                                                                                       |
| <b>Host:</b>          | Rabbit                                                                                       |
| <b>Isotype:</b>       | IgG                                                                                          |
| <b>Immunogen:</b>     | Synthesized peptide derived from ADAMTS-7 . at AA range: 150-230                             |
| <b>Reactivity:</b>    | Human,Rat,Mouse                                                                              |
| <b>Applications:</b>  | IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000                                      |
| <b>Purification:</b>  | Affinity purification                                                                        |
| <b>Form:</b>          | Liquid                                                                                       |
| <b>Buffer:</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.           |
| <b>Storage:</b>       | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles. |

**Background:**

The protein encoded by this gene is a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) family. Members of this 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 encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme contains two C-terminal TS motifs and may regulate vascular smooth muscle cell (VSMC) migration. Mutations in this gene may be associated with susceptibility to coronary artery disease. [provided by RefSeq, Feb 2016],cofactor: Binds 1 zinc ion per subunit.,domain: 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.,domain: The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix.,function: Metalloprotease that may play a role in the degradation of COMP.,induction: Up-regulated in articular cartilage and synovium from arthritis patients.,PTM: May be cleaved by a furin endopeptidase (By similarity). The precursor is sequentially processed.,PTM: N-glycosylated.,PTM: O-glycosylated proteoglycan. Contains chondroitin sulfate.,similarity: Contains 1 disintegrin domain.,similarity: Contains 1 peptidase M12B domain.,similarity: Contains 1 PLAC domain.,similarity: Contains 8 TSP type-1 domains.,subcellular location: Also found associated with the external cell surface.,subunit: Interacts with COMP.,tissue specificity: Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Detected in meniscus, bone, tendon, cartilage, synovium, fat and ligaments.,