



# ADAMTS-7 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-02483
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	IHC;IF;ELISA
<b>Gene Name</b>	ADAMTS7
<b>Protein Name</b>	A disintegrin and metalloproteinase with thrombospondin motifs 7
<b>Immunogen</b>	Synthesized peptide derived from ADAMTS-7 . at AA range: 150-230
<b>Specificity</b>	ADAMTS-7 Polyclonal Antibody detects endogenous levels of ADAMTS-7 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ADAMTS7; A disintegrin and metalloproteinase with thrombospondin motifs 7; ADAM-TS 7; ADAM-TS7; ADAMTS-7; COMPase
<b>Observed Band</b>	
<b>Cell Pathway</b>	Secreted, extracellular space, extracellular matrix . Also found associated with the external cell surface. .
<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>Function</b>	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.

**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],

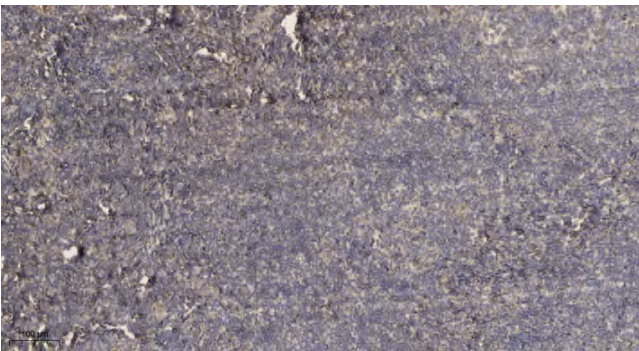
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).