

ADAMTS-7 Polyclonal Antibody

Catalog No :	YT0117
Reactivity :	Human;Rat;Mouse;
Applications :	IHC;IF;ELISA
Target :	ADAMTS-7
Gene Name :	ADAMTS7
Protein Name :	A disintegrin and metalloproteinase with thrombospondin motifs 7
Human Gene Id :	11173
Human Swiss Prot No :	Q9UKP4
Mouse Swiss Prot No :	Q68SA9
Immunogen :	Synthesized peptide derived from ADAMTS-7 . at AA range: 150-230
Specificity :	ADAMTS-7 Polyclonal Antibody detects endogenous levels of ADAMTS-7 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	110kD

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],

Function :

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 :

Secreted, extracellular space, extracellular matrix . Also found associated with the external cell surface. .

Expression :

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Detected in meniscus, bone, tendon, cartilage, synovium, fat and ligaments.

Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).