

ADAMTS-1 Polyclonal Antibody

Catalog No :	YT0112
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	ADAMTS-1
Gene Name :	ADAMTS1
Protein Name :	A disintegrin and metalloproteinase with thrombospondin motifs 1
Human Gene Id :	9510
Human Swiss Prot No :	Q9UHI8
Mouse Swiss Prot No :	P97857
Immunogen :	Synthesized peptide derived from ADAMTS-1 . at AA range: 160-240
Specificity :	ADAMTS-1 Polyclonal Antibody detects endogenous levels of ADAMTS-1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
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)
Observed Band :	105kD

Background :

This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motif) protein family. Members of the 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 protein encoded by this gene contains two disintegrin loops and three C-terminal TS motifs and has anti-angiogenic activity. The expression of this gene may be associated with various inflammatory processes as well as development of cancer cachexia. This gene is likely to be necessary for normal growth, fertility, and organ morphology and function. [provided by RefSeq, Jul 2008],

Function :

catalytic activity: Cleaves aggrecan at the 1938-Glu-|-Leu-1939 site, within the chondroitin sulfate attachment domain., 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: Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover (By similarity). Has angiogenic inhibitor activity. Active metalloprotease, which may be associated with various inflammatory processes as well as development of cancer cachexia. May play a critical role in follicular rupture., PTM: The precursor is cleaved by a furin endopeptidase., similarity: Conta

Subcellular Location :

Secreted, extracellular space, extracellular matrix .

Expression :

Brain, Colon endothel, Endothelial cell, Heart

Products Images

