



ATS9 Monoclonal Antibody

Catalog No	YP-mAb-05291
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	ADAMTS9 KIAA1312
Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 9 (ADAM-TS 9) (ADAM-TS9) (ADAMTS-9) (EC 3.4.24.-)
Immunogen	Synthesized peptide derived from human protein . at AA range: 210-290
Specificity	ATS9 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	212kD
Cell Pathway	Secreted, extracellular space, extracellular matrix . Endoplasmic reticulum .
Tissue Specificity	Highly expressed in all fetal tissues. Expressed in a number of adult tissues with highest expression in heart, placenta and skeletal muscle.
Function	catalytic activity: Cleaves aggrecan at the 1838-Glu-I-Ala-1839 site and versican at the 1428-Glu-I-Ala-1429 site., cofactor: Binds 1 zinc ion per subunit., domain: The ancillary domains, including the TSRs domain, are required for specific extracellular localization and for its versicanase and aggrecanase activities., 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 the large aggregating proteoglycans, aggrecan and versican., PTM: The precursor is cleaved by a furin endopeptidase., similarity: Contains 1 disintegrin domain., similarity: Contains 1 GON domain., similarity: Contains 1
Background	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) 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. Members of the ADAMTS family have been implicated in the cleavage of proteoglycans, the control of organ shape during development, and the inhibition of angiogenesis. This gene is localized to chromosome 3p14.3-p14.2, an area known to be lost in hereditary renal tumors. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Jan 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.

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