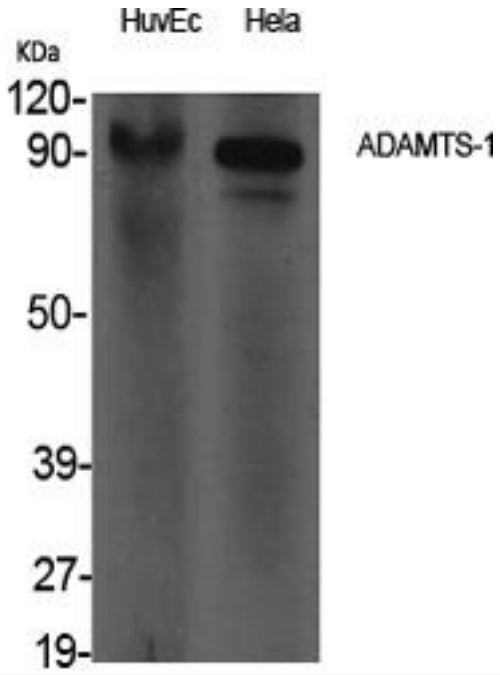
ADAMTS-1 Monoclonal Antibody

Catalog No	YP-mAb-02478
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	ADAMTS1
Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 1
Immunogen	Synthesized peptide derived from ADAMTS-1 . at AA range: 160-240
Specificity	ADAMTS-1 Monoclonal Antibody detects endogenous levels of ADAMTS-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA 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	ADAMTS1; KIAA1346; METH1; A disintegrin and metalloproteinase with thrombospondin motifs 1; ADAM-TS 1; ADAM-TS1; ADAMTS-1; METH-1
Observed Band	105kD
Cell Pathway	Secreted, extracellular space, extracellular matrix .
Tissue Specificity	Brain,Colon endothel,Endothelial cell,Heart
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
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],
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



Western Blot analysis of various cells using ADAMTS-1 Monoclonal Antibody