Rabbit anti-Human, Mouse ADAMTS18 Polyclonal Antibody | anti-ADAMTS18 antibody

ADAMTS18 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324419	**Rabbit**	**Human, Mouse**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

ADAMTS18; Polyclonal Antibody; ADAMTS18 Antibody; A disintegrin and metalloproteinase with thrombospondin motifs 18; A disintegrin like and metalloprotease (reprolysin type) with thrombospondin type 1 motif 18; A disintegrin like and metalloprotease (reprolysin type) with thrombospondin type 1 motif 21; ADAM metallopeptidase with thrombospondin type 1 motif 18; ADAM-TS 18; ADAM-TS18; ADAMTS 18; ADAMTS-18; ADAMTS21; ATS18_HUMAN; Disintegrin and metalloprotease like protein; EC 3.4.24.; KNO2; anti-ADAMTS18 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	ADAMTS18 antibody detects endogenous levels of total ADAMTS18
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1221
Applicable Applications for anti-ADAMTS18 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Secreted > Extracellular Space > Extracellular Matrix.
Tissue Specificity	Expressed in fetal lung, liver, and kidney and in adult brain, prostate, submaxillary gland, and endothelium.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (90%), Rabbit (90%), Dog (100%), Chicken (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IF (Immunofluorescence)
AAA324419 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

WB (Western Blot)
Western blot analysis of extracts from 3T3 cells, using ADAMTS18 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ADAMTS18 antibody	Function: Variant Leu-179 has been originally reported as disease-causing mutation in a patient with Knobloch syndrome (PubMed:21862674). It has been subsequently shown that Knobloch syndrome in the patient was due to an intronic mutation in COL18A1. Variant Leu-179 is, therefore, not responsible for the disease phenotype (PubMed:23667181). Post-translational Modifications: The precursor is cleaved by a furin endopeptidase. Glycosylated. Can be O-fucosylated by POFUT2 on a serine or a threonine residue found within the consensus sequence C1-X2-(S/T)-C2-G of the TSP type-1 repeat domains where C1 and C2 are the first and second cysteine residue of the repeat, respectively. Fucosylated repeats can then be further glycosylated by the addition of a beta-1, 3-glucose residue by the glucosyltransferase, B3GALTL. Fucosylation mediates the efficient secretion of ADAMTS family members. Also can be C-glycosylated with one or two mannose molecules on tryptophan residues within the consensus sequence W-X-X-W of the TPRs, and N-glycosylated. These other glycosylations can also facilitate secretion (By similarity). Similarity: 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40806187
NCBI GeneID	170692
NCBI Accession #	NP_955387.1
NCBI GenBank Nucleotide #	NM_199355.3
UniProt Accession #	Q8TE60; Q6P4R5; Q6ZWJ9
Molecular Weight	Observed: 135 kD Predicted: 136 kDa
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 18 isoform 1 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif 18
NCBI Official Symbol	ADAMTS18
NCBI Official Synonym Symbols	KNO2; MMCAT; ADAMTS21
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 18
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 18
UniProt Gene Name	**ADAMTS18**
UniProt Synonym Gene Names	ADAMTS21; ADAM-TS 18; ADAM-TS18; ADAMTS-18

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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