

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

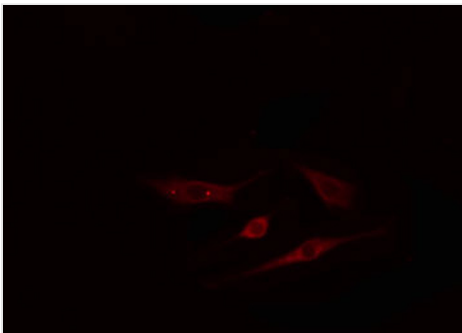
PRODUCT SYNONYMS

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

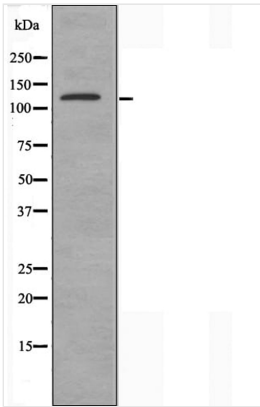
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	ADAMTS18 antibody detects endogenous levels of total ADAMTS18
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, 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 metalloproteinase 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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/adamts18-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324419>