

ADAMTS8 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP58333

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UP79
Reactivity	Rat, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96460
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ADAMTS8
Epitope Specificity	541-640/889
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted, extracellular space, extracellular matrix (By similarity).
SIMILARITY	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain. Contains 2 TSP type-1 domains.
Post-translational modifications	The precursor is cleaved by a furin endopeptidase (By similarity). Glycosylated. Can be O-fucosylated by POFUT2 on a serine or a threonine residue found within the consensus sequence C1-X(2)-(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, B3GALT1. 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).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ADAMTS proteases are secreted enzymes containing a prometalloprotease domain of the reprotin type. The ADAMTS proteases function in processing of procollagens and von Willebrand factor as well as catabolism of aggrecan, versican and brevican. They have been demonstrated to have important roles in connective tissue organization, coagulation, inflammation, arthritis, angiogenesis and cell migration. A member of the metalloproteinase family containing disintegrin like domains (ADAMs), the function of ADAMTS8 is still poorly understood. ADAMTS8 contains the canonical HEXHxxxxxH zinc metalloproteinase motif, and has been shown to be proteolytically active on a range of substrates. ADAMTS8 is inhibited by the endogenous MMP inhibitors, TIMP1, 2, 3 and 4, but most efficiently by TIMP3. In addition to the metalloprotease domain, ADAMTS8 has a propeptide domain, a Prohormone Convertase (PC, furin) cleavage site, a cysteine rich domain and thrombospondin 1 like domains.

Additional Information

Gene ID	11095
Other Names	A disintegrin and metalloproteinase with thrombospondin motifs 8, ADAM-TS 8, ADAM-TS8, ADAMTS-8, 3.4.24.-, METH-2, METH-8, ADAMTS8, METH2
Target/Specificity	Highly expressed in adult and fetal lung, lower expression in brain, placenta, heart, stomach and fetal brain and kidney.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ADAMTS8
Synonyms	METH2
Function	Has anti-angiogenic properties.
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Highly expressed in adult and fetal lung, lower expression in brain, placenta, heart, stomach and fetal brain and kidney

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.