10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ADAMTS13 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7438c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q76LX8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18029
Calculated MW	153604
Antigen Region	829-858

Additional Information

Gene ID	11093
Other Names	A disintegrin and metalloproteinase with thrombospondin motifs 13, ADAM-TS 13, ADAM-TS13, ADAMTS-13, von Willebrand factor-cleaving protease, vWF-CP, vWF-cleaving protease, ADAMTS13, C9orf8
Target/Specificity	This ADAMTS13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 829-858 amino acids from the Central region of human ADAMTS13.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ADAMTS13 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADAMTS13
Synonyms	C9orf8
Function	Cleaves the vWF multimers in plasma into smaller forms thereby controlling

	vWF-mediated platelet thrombus formation.
Cellular Location	Secreted. Note=Secretion enhanced by O-fucosylation of TSP type-1 repeats
Tissue Location	Plasma. Expressed primarily in liver.

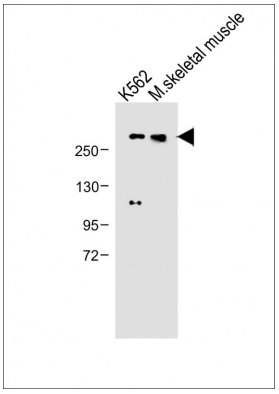
Background

ADAMTS13 is 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 enzyme is the von Willebrand Factor (vWF)-cleaving protease, which is responsible for cleaving at the site of Tyr842-Met843 of the vWF molecule. A deficiency of this enzyme is associated with thrombotic thrombocytopenic purpura.

References

Zheng X., Chung D., Takayama T.K.J. Biol. Chem. 276:41059-41063(2001)
Levy G.G., Nichols W.C.Nature 413:488-494(2001)
Cal S., Obaya A.J., Llamazares M., Garabaya C.Gene 283:49-62(2002)
Zheng X., Nishio K., Majerus E.M.J. Biol. Chem. 278:30136-30141(2003)
Anderson P.J., Kokame K., Sadler J.E.J. Biol. Chem. 281:850-857(2006)
Pimanda J.E., Maekawa A., Wind T.Blood 103:627-629(2004)
Plaimauer B., Fuhrmann J., Mohr G.Blood 107:118-125(2006)

Images



All lanes : Anti-ADAMTS13 Antibody (Center) at 1:500 dilution Lane 1: K562 whole cell lysate Lane 2: M. skeletal muscle whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Observed band size : 250kDa Blocking/Dilution buffer: 5% NFDM/TBST.