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ADAMTS13 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant ADAMTS13.
Catalog # AT1047a

Product Information

Application	E
Primary Accession	Q76LX8
Other Accession	NM_139025
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4F12
Calculated MW	153604

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	ADAMTS13 (NP_620594, 1328 a.a. ~ 1427 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ADAMTS13 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

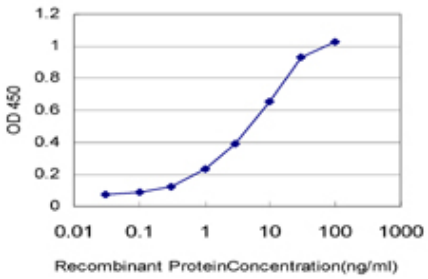
Background

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 enzyme encoded by this gene 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. Alternative splicing of this gene generates multiple transcript variants encoding different isoforms.

References

Polymorphisms and Mutations in vWF and ADAMTS13 Genes and Their Correlation With Plasma Levels of FVIII and vWF in Patients With Deep Venous Thrombosis. Bittar LF, et al. Clin Appl Thromb Hemost, 2010 Aug 3. PMID 20682599.A splice variant of ADAMTS13 is expressed in human hepatic stellate cells and cancerous tissues. Shomron N, et al. Thromb Haemost, 2010 Sep. PMID 20664912.Human variation in alcohol response is influenced by variation in neuronal signaling genes. Joslyn G, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201926.HLA-DRB1*11: a strong risk factor for acquired severe ADAMTS13 deficiency-related idiopathic thrombotic thrombocytopenic purpura in Caucasians. Coppo P, et al. J Thromb Haemost, 2010 Apr. PMID 20141578.Amino acid residues Arg(659), Arg(660), and Tyr(661) in the spacer domain of ADAMTS13 are critical for cleavage of von Willebrand factor. Jin SY, et al. Blood, 2010 Mar 18. PMID 20075158.

Images



Detection limit for recombinant GST tagged ADAMTS13 is approximately 0.1ng/ml as a capture antibody.

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