

ADAMTS2 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant ADAMTS2.

Catalog # AT1049a

Product Information

Application	WB, E
Primary Accession	O95450
Other Accession	NM_014244
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	7G3
Calculated MW	134755

Additional Information

Gene ID	9509
Other Names	A disintegrin and metalloproteinase with thrombospondin motifs 2, ADAM-TS 2, ADAM-TS2, ADAMTS-2, Procollagen I N-proteinase, PC I-NP, Procollagen I/II amino propeptide-processing enzyme, Procollagen N-endopeptidase, pNPI, ADAMTS2, PCINP, PCPNI
Target/Specificity	ADAMTS2 (NP_055059, 1112 a.a. ~ 1210 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	ADAMTS2 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

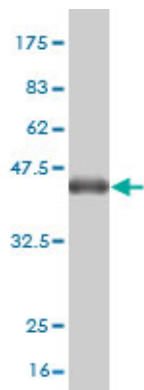
Background

This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) 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 excises the N-propeptide of type I, type II and type V procollagens. Mutations in this gene cause Ehlers-Danlos syndrome type VIIC, a recessively inherited connective-tissue disorder. Alternative splicing results in multiple transcript variants.

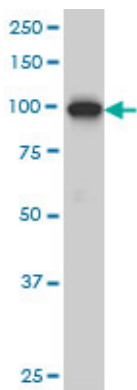
References

ADAMTS-2 functions as anti-angiogenic and anti-tumoral molecule independently of its catalytic activity. Dubail J, et al. Cell Mol Life Sci, 2010 Jun 24. PMID 20574651. Genome-wide association scan of the time to onset of attention deficit hyperactivity disorder. Lasky-Su J, et al. Am J Med Genet B Neuropsychiatr Genet, 2008 Dec 5. PMID 18937294. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560. Domains and maturation processes that regulate the activity of ADAMTS-2, a metalloproteinase cleaving the aminopropeptide of fibrillar procollagens types I-III and V. Colige A, et al. J Biol Chem, 2005 Oct 14. PMID 16046392. Novel types of mutation responsible for the dermatosparactic type of Ehlers-Danlos syndrome (Type VIIC) and common polymorphisms in the ADAMTS2 gene. Colige A, et al. J Invest Dermatol, 2004 Oct. PMID 15373769.

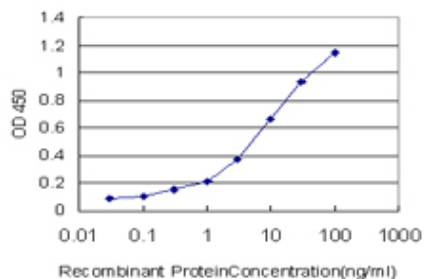
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



ADAMTS2 monoclonal antibody (M03), clone 7G3 Western Blot analysis of ADAMTS2 expression in PC-12 ((Cat # AT1049a)



Detection limit for recombinant GST tagged ADAMTS2 is approximately 0.3ng/ml as a capture antibody.

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