Data Sheet (Cat.No.TMAB-00056)

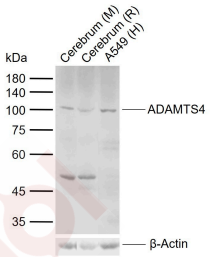
Anti-ADAMTS4 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 90 kDa. Actual: 100 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Lane 3: Human A549 cell lysates Primary: Anti-ADAMTS4 (TMAB-00056) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 90 kDa Observed band size: 100 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human ADAMTS4
Antigen Species:	Human
Gene ID:	9507
Uniprot ID:	O75173
Synonyms:	ADAM-TS 4;ADAM-TS4;ADAMTS-4;Aggrecanase-1;ADMP-1;ADAMTS4;A disintegrin and metalloproteinase with thrombospondin motifs 4;KIAA0688
Biology Area:	MMP,ADAM Protein Family,ADAM TS,ADAM protein family

Research Background

This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of this 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 lacks a C-terminal TS motif. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

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