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

ADAMTS4 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8671b

Product Information

Application	WB, E
Primary Accession	O75173
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,κ
Clone Names	1995CT113.89.78
Calculated MW	90197

Additional Information

Gene ID	9507
Other Names	A disintegrin and metalloproteinase with thrombospondin motifs 4, ADAM-TS 4, ADAM-TS4, ADAMTS-4, 3.4.24.82, ADMP-1, Aggrecanase-1, ADAMTS4, KIAA0688
Target/Specificity	This ADAMTS4 antibody is generated from a mouse immunized with a recombinant protein from the human region of human ADAMTS4.
Dilution	WB~~1:8000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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	ADAMTS4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADAMTS4
Synonyms	KIAA0688
Function	Cleaves aggrecan, a cartilage proteoglycan, at the '392- Glu-|-Ala-393' site and may be involved in its turnover (PubMed:10356395, PubMed:10827174).

	Also cleaves COMP (PubMed:39672391). May play an important role in the destruction of aggrecan in arthritic diseases. Could be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease.
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Expressed in brain, lung and heart (PubMed:23897278). Expressed at very low level in placenta and skeletal muscles (PubMed:23897278). Isoform 2: Detected in osteoarthritic synovium (PubMed:16723216, PubMed:23897278)

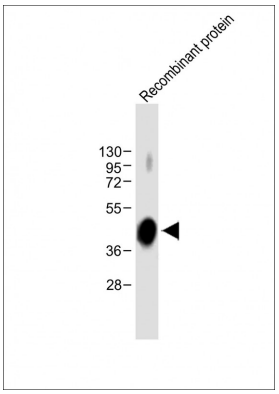
Background

Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the '392-Glu-|-Ala-393' site.

References

Tortorella M.D.,et al.Science 284:1664-1666(1999).
Wainwright S.D.,et al.Matrix Biol. 25:317-320(2006).
Sawaji Y.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Ishikawa K.,et al.DNA Res. 5:169-176(1998).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).

Images



Anti-ADAMTS4 Antibody at 1:8000 dilution + Recombinant protein Lysates/proteins at 20ng per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 90 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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