Datasheet for ABIN3043192

anti-ADAMTS4 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	ADAMTS4
Binding Specificity:	AA 820-837, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADAMTS4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-ADAMTS4/ADAMTS4 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human ADAMTS4, different from the related rat and mouse sequences by three amino acids.
Sequence:	RRAQILEILR RRPWAGRK
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-ADAMTS4/ADAMTS4 Antibody (ABIN3043192). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	ADAMTS4
Alternative Name:	ADAMTS4 (ADAMTS4 Products)
Background:	Synonyms: 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,UNQ769/PRO1563, Tissue Specificity: Expressed in brain, lung and heart. Expressed at very low level in placenta and skeletal muscles. Isoform 2 is detected in osteoarthritic synovium. . Background: ADAMTS4, A disintegrin and metalloproteinase with thrombospondin motifs 4 is an enzyme that in humans is encoded by the ADAMTS4 gene. ADAMTS4 is a member of the large ADAMTS family of zinc-dependent proteases. The human ADAMTS4 gene is mapped to chromosome 1 by somatic cell hybrid analysis. The enzyme encoded by this gene lacks a C-terminal TS motif. It is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The cleavage of aggrecan and brevican suggests key roles of this enzyme in arthritic disease and in the central nervous system, potentially, in the progression of glioma. Sequence Similarities: Contains 1 disintegrin domain.
Molecular Weight:	24 kDa
UniProt:	O75173

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat 1. Hurskainen, T. L., Hirohata, S., Seldin, M. F., Apte, S. S.ADAM-TS5, ADAM-TS6, and ADAM-TS7, novel members of a new family of zinc metalloproteases: general features and genomic distribution of the ADAM-TS family.J. Biol. Chem. 274: 25555-25563, 1999. 2. Tang, B. L., Hong, W.ADAMTS: a novel family of proteases with an ADAM protease domain and thrombospondin 1 repeats.FEBS Lett. 445: 223-225, 1999. 3. Tortorella, M. D., Burn, T. C., Pratta, M. A., Abbaszade, I., Hollis, J. M., Liu, R., Rosenfeld, S. A., Copeland, R. A., Decicco, C. P., Wynn, R., Rockwell, A., Yang, F., and 16 others.Purification and cloning of aggrecanase-1: a member of the ADAMTS family of proteins.Science 284: 1664-1666, 1999.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

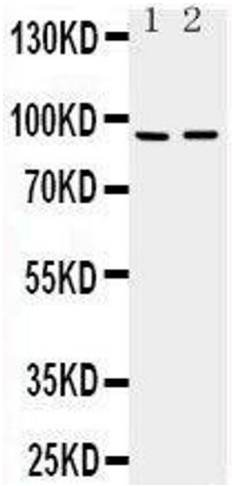
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Liu, Tian, Zhou, Wang, Gou, Zhang, Wang, Shen, Zhang, Zhang: "Protective effect of calcitonin on lumbar fusion-induced adjacent-segment disc degeneration in ovariectomized rat." in: **BMC musculoskeletal disorders**, Vol. 16, pp. 342, (2016) (PubMed). Chen, Bai, Liao, Peng, Wu, Wang, Zeng, Xie: "Electrospun poly(L-lactide)/poly(?-caprolactone) blend nanofibrous scaffold: characterization and biocompatibility with human adipose-derived stem cells." in: **PLoS ONE**, Vol. 8, Issue 8, pp. e71265, (2013) (PubMed).



Western Blotting

Image 1. Anti-ADAMTS4 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Mouse Brain Tissue Lysate