



Product Information Sheet

Polyclonal Anti- ADAM metalloproteinase with thrombospondin type 1 motif, 4, **ADAMTS4**

Catalogue No. PA1236

Lot No. 09F01

Ig type rabbit IgG

Size 100µg/vial

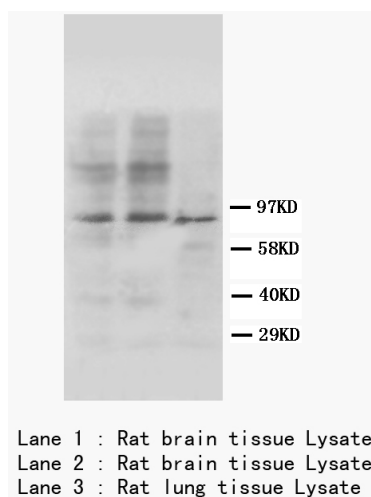
Specificity

Rat, mouse.

No cross reactivity with other proteins.

Recommended application

Western blot



Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of mouse ADAMTS4, different to the related human sequence by three amino acids.

Purity

Immunogen affinity purified.

Application

	Concen- tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

ADAM metallopeptidase with thrombospondin type 1 motif, 4, also known as ADAMTS4, is a human gene. This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. ADAMTS is a novel family of extracellular proteases found in both mammals and invertebrates. Members of the family may be distinguished from the ADAM (a disintegrin and metalloprotease) family members based on the multiple copies of thrombospondin 1-like repeats they carry.¹ Pratta et al. (2003) concluded that ADAMTS4 is constitutively produced in monolayer chondrocytes, capsular fibroblasts, and cartilage, and that stimulation by interleukin-1 results in aggrecanase activation. Thus, the activator could be a potential target by which to control aggrecanase-mediated degradation in arthritic diseases.²

REFERENCE

1. Tang BL, Hong W (1999). "ADAMTS: a novel family of proteases with an ADAM protease domain and thrombospondin 1 repeats." *FEBS Lett.* 445 (2-3): 223–5.
2. Pratta, M. A.; Scherle, P. A.; Yang, G.; Liu, R.-Q.; Newton, R. C. : Induction of aggrecanase 1 (ADAM-TS4) by interleukin-1 occurs through activation of constitutively produced protein. *Arthritis Rheum.* 48: 119-133, 2003.