

For Research Use Only

ADAMTS4 Recombinant antibody

Catalog Number: 82744-2-RR



Basic Information

Catalog Number:

82744-2-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2443

GenBank Accession Number:

BC030812

GeneID (NCBI):

9507

UNIPROT ID:

O75173

Full Name:

ADAM metalloproteinase with thrombospondin type 1 motif, 4

Calculated MW:

837 aa, 90 kDa

Observed MW:

90 kDa

Purification Method:

Protein A purification

CloneNo.:

4F9

Recommended Dilutions:

WB 1:1000-1:5000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : THP-1 cells, HEK-293T cells, SH-SY5Y cells, Caco-2 cells, mouse brain tissue, rat brain tissue

Background Information

The ADAMTS (a disintegrin-like and metalloproteinase with thrombospondin motifs) is a family of extracellular metalloproteinases mediating diverse functions including matrix degradation, blood coagulation and angiogenesis. The ADAMTS family constitutes a group of proteins composed of 19 enzymes and 7 ADAMTS-like proteins. ADAMTS4 is a well-known proteoglycanase and has angiomodulatory properties. The 837 amino acid long human ADAMTS4 protein contains a long signal peptide, a prodomain, a metalloproteinase catalytic domain with zinc-binding motif, a disintegrin-like domain, a central TSR motif, followed by a cysteine-rich region with ten conserved cysteine residues, and a spacer domain. The full-length proform human ADAMTS4 (zymogen form) has been described to be 90 kDa. In extracellular matrix (ECM), ADAMTS4 undergoes further C-terminal cleavage at Lys694-Phe695 and Thr581-Phe582, respectively, to generate two other truncated forms-53 and 40 kDa (PMID:12202483).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

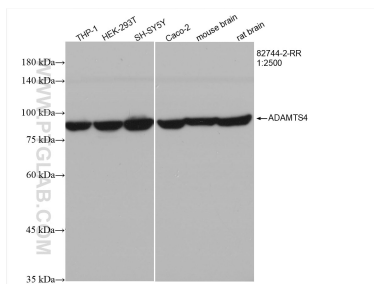
For technical support and original validation data for this product please contact:

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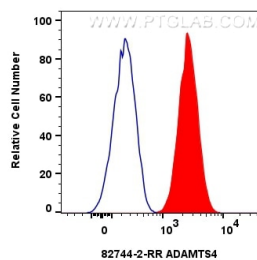
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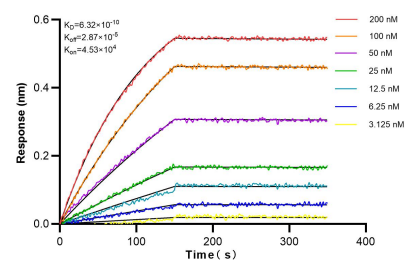
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82744-2-RR (ADAMTS4 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



1x10⁶ U2OS cells were intracellularly stained with 0.25 ug ADAMTS4 Recombinant antibody (82744-2-RR, Clone:4F9) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 82744-2-RR against Human ADAMTS4 were performed. The affinity constant is 0.632 nM.