

ADAMTS4 Recombinant antibody

Catalog Number: 82744-2-RR

Basic Information

Catalog Number:

82744-2-RR

Size:

1000 µg/ml

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

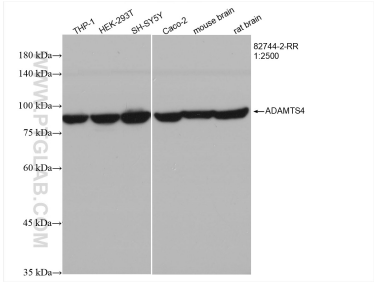
For technical support and original validation data for this product please contact:

T: 4006900926

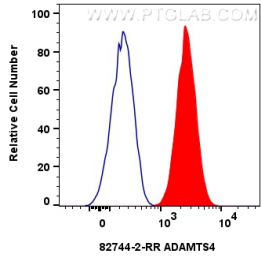
E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

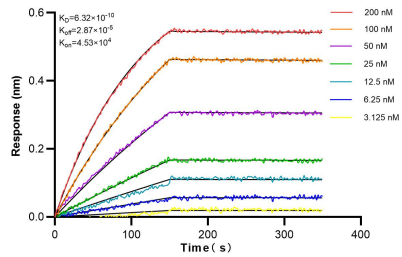
Selected Validation Data



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 AffiniPure 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.