

For Research Use Only

ADAMTS4 Recombinant antibody, PBS Only



Catalog Number: 82744-2-PBS

Basic Information

| | | |
|---|---|---|
| Catalog Number: 82744-2-PBS | GenBank Accession Number: BC030812 | Purification Method: Protein A purification |
| Size: 100ug, Concentration: 1mg/ml by Nanodrop; | GeneID (NCBI): 9507 | CloneNo.: 4F9 |
| Source: Rabbit | UNIPROT ID: O75173 | |
| Isotype: IgG | Full Name: ADAM metalloproteinase with thrombospondin type 1 motif, 4 | |
| Immunogen Catalog Number: AG2443 | Calculated MW: 837 aa, 90 kDa | |
| | Observed MW: 90 kDa | |

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, Mouse, Rat

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

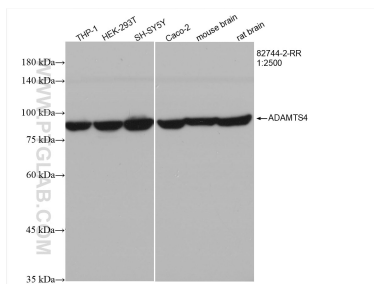
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

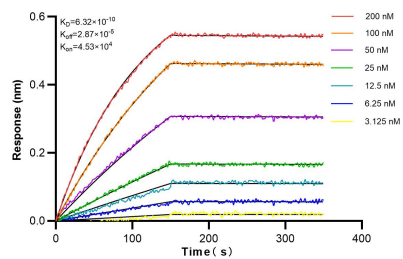
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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. This data was developed using the same antibody clone with 82744-2-PBS in a different storage buffer formulation.



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