For Research Use Only

ADAMTS4 Recombinant antibody, PBS Only

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Catalog Number:82744-2-PBS

Basic Information

Catalog Number:
82744-2-PBS

Size:
1mg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2443

GenBank Accession Number:
BC030812

GeneID (NCBI):
9507

UNIPROT ID:
O75173

Full Name:
ADAM metallopeptidase with thrombospondin type 1 motif, 4

Calculated MW:
837 aa, 90 kDa

Observed MW:
90 kDa

Purification Method:
Protein A purification

CloneNo.:
4F9

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, Mouse, Rat

Background Information

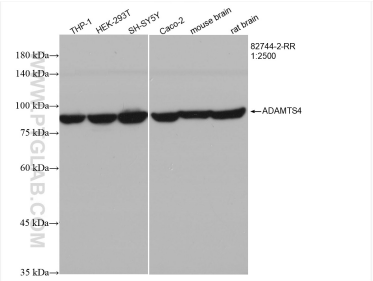
The ADAMTS (a disintegrin-like and metalloproteinase with thrombospondin motifs) is a family of extracellular metalloproteinases mediating diverse functions including matrix degradation, blood coagulation and angiogenesis. The ADAMTS family constitutes a group of proteins composed of 19 enzymes and 7 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

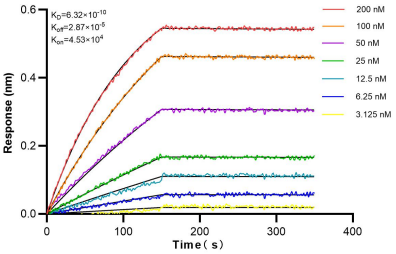
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.