

ADAMTS4 Rabbit pAb

Catalog No.: A2525 **9 Publications**

Basic Information

Observed MW

90kDa/

Calculated MW

90kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of this family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene lacks a C-terminal TS motif. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.

Recommended Dilutions

| | |
|---------------|----------------|
| WB | 1:500 - 1:2000 |
| IF/ICC | 1:50 - 1:200 |

Immunogen Information

| | |
|----------------|-------------------|
| Gene ID | Swiss Prot |
| 9507 | O75173 |

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 74-318 of human ADAMTS4 (NP_005090.3).

Synonyms

ADMP-1; ADAMTS-2; ADAMTS-4; ADAMTS4

Contact

 | www.abclonal.com

Product Information

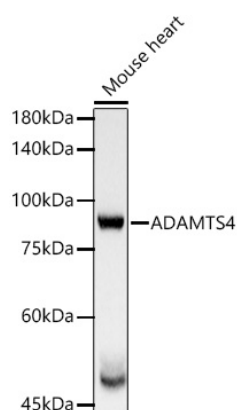
| | | |
|---------------|----------------|-----------------------|
| Source | Isotype | Purification |
| Rabbit | IgG | Affinity purification |

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from Mouse heart using ADAMTS4 Rabbit pAb(A2525) at 1:500 dilution.

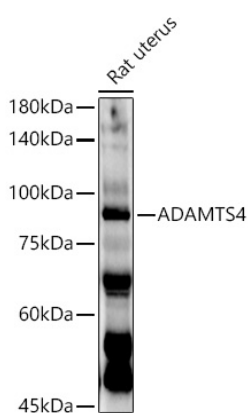
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L)(A5014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 3s.



Western blot analysis of lysates from Rat uterus using ADAMTS4 Rabbit pAb(A2525) at 1:500 dilution.

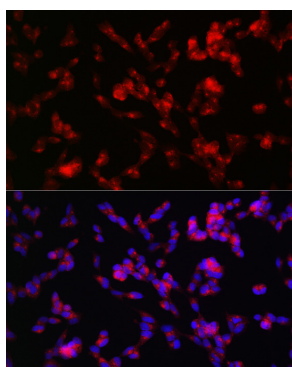
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L)(A5014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 120s.



Immunofluorescence analysis of SH-SY5Y cells using ADAMTS4 Rabbit pAb (A2525) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (A5007) at 1:500 dilution. Blue: DAPI for nuclear staining.