

Datasheet for ABIN391642  
**anti-ADAMTS4 antibody (C-Term)**

3 Images

1 Publication

[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 400 µL                                 |
| Target:              | ADAMTS4                                |
| Binding Specificity: | AA 705-736, C-Term                     |
| Reactivity:          | Human, Mouse                           |
| Host:                | Rabbit                                 |
| Clonality:           | Polyclonal                             |
| Conjugate:           | This ADAMTS4 antibody is un-conjugated |
| Application:         | Western Blotting (WB)                  |

## Product Details

|                       |  |
|-----------------------|--|
| Immunogen:            | This ADAMTS4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 705-736 amino acids from the C-terminal region of human ADAMTS4. |
| Clone:                | RB18037  |
| Isotype:              | Ig Fraction  |
| Predicted Reactivity: | H  |
| Purification:         | This antibody is purified through a protein A column, followed by peptide affinity purification.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | ADAMTS4                                      |
| Alternative Name: | ADAMTS4 ( <a href="#">ADAMTS4 Products</a> ) |

## Target Details

**Background:** ADAMTS4 is a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the 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 lacks a C-terminal TS motif. It is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The cleavage of aggrecan and brevican suggests key roles of this enzyme in arthritic disease and in the central nervous system, potentially, in the progression of glioma.

**Molecular Weight:** 90197

**Gene ID:** 9507

**NCBI Accession:** [NP\\_005090](#)

**UniProt:** [O75173](#)

## Application Details

**Application Notes:** WB: 1:1000. WB: 1:2000. WB: 1:1000

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C, -20 °C

**Storage Comment:** Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

**Expiry Date:** 6 months

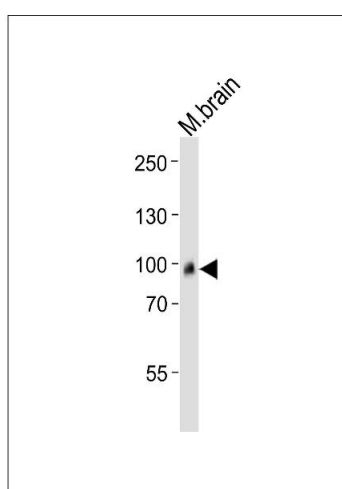
## Publications

**Product cited in:** Humphrey, Newcomb, Yu, Hao, Yu, Krajewski, Du, Jhala: "Mixed lineage kinase-3 stabilizes and

functionally cooperates with TRIBBLES-3 to compromise mitochondrial integrity in cytokine-induced death of pancreatic beta cells." in: **The Journal of biological chemistry**, Vol. 285, Issue 29, pp. 22426-36, (2010) ([PubMed](#)).

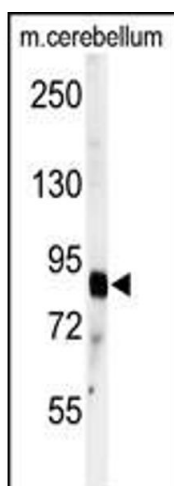
Nagao, Hayashi: "Mixed lineage kinase 2 and hippocalcin are localized in Lewy bodies of Parkinson's disease." in: **Journal of the neurological sciences**, Vol. 281, Issue 1-2, pp. 51-4, (2009) ([PubMed](#)).

## Images



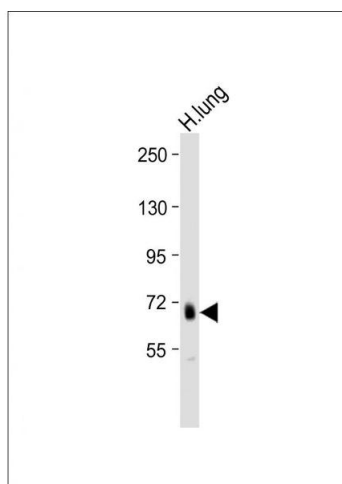
### Western Blotting

**Image 1.** Western blot analysis of lysate from mouse brain tissue lysate, using ADTS4 Antibody (C-term) (ABIN391642 and ABIN2841554). (ABIN391642 and ABIN2841554) was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20 µg.



### Western Blotting

**Image 2.** Western blot analysis of anti-ADTS4 Antibody (C-term) (ABIN391642 and ABIN2841554) in mouse cerebellum tissue lysates (35 µg/lane). ADTS4 (arrow) was detected using the purified Pab.



### Western Blotting

**Image 3.** Anti-ADTS4 Antibody (C-term) at 1:2000 dilution + Human lung lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 90 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.