

Datasheet for ABIN2776877

anti-ADAMTS4 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	ADAMTS4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Horse, Dog, Cow, Guinea Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADAMTS4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ADAMTS4
Sequence:	GVQVEGLTVQ YLGQAPELLG GAEPGTYLTG TINGDPESVA SLHWDGGALL
Predicted Reactivity:	Cow: 100%, Dog: 93%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against ADAMTS4. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	ADAMTS4
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Target Details

Alternative Name:	ADAMTS4 (ADAMTS4 Products)
Background:	<p>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. ADAMTS4 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.</p> <p>Alias Symbols: ADAMTS-2, ADAMTS-4, ADMP-1, KIAA0688</p> <p>Protein Interaction Partner: YTHDC1, ZBTB16, ELAVL1, UBC, MT2A, SRPX2, ADAMTS4, BCAN, SERPINA1, ACAN, HP, FURIN, FN1, SERPINA3,</p> <p>Protein Size: 339</p>
Molecular Weight:	37 kDa
Gene ID:	9507
UniProt:	Q8NEK2

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 339 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice: Avoid repeated freeze-thaw cycles.

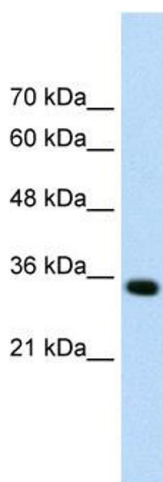
Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

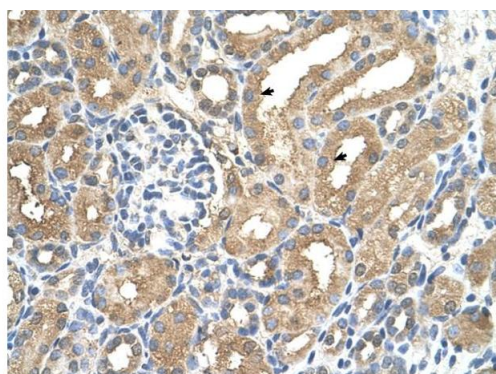
Product cited in: Coyne, Gambling, Boucher, Carson, Johnson: "Role of claudin interactions in airway tight junctional permeability." in: **American journal of physiology. Lung cellular and molecular physiology**, Vol. 285, Issue 5, pp. L1166-78, (2003) ([PubMed](#)).

Validation report #102749 for Immunohistochemistry (IHC)



Western Blotting

Image 1. WB Suggested Anti-ADAMTS4 Antibody Titration:
0.2-1 ug/ml Positive Control: HepG2 cell lysate

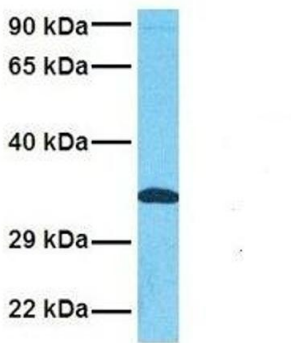


Rabbit Anti-ADAMTS4 Antibody
Catalog Number: ARP41556
Lot Number: QC12225
Paraffin Embedded Tissue: Human Kidney
Cells with Positive label: Epithelial cells of renal tubule (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

Immunohistochemistry

Image 2. Rabbit Anti-ADAMTS4 Antibody Paraffin
Embedded Tissue: Human Kidney Cellular Data: Epithelial
cells of renal tubule Antibody Concentration: 4.0-8.0 ug/ml
Magnification: 400X

ADAMTS4



Western Blotting

Image 3. Host: Rabbit Target Name: ADAMTS4 Sample
Tissue: Human Fetal Lung Antibody Dilution: 1.0ug/ml