



Datasheet for ABIN1048290

anti-ADAMTS4 antibody (Metalloprotease Domain)



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2 Images

Overview

Quantity:	50 µg
Target:	ADAMTS4
Binding Specificity:	Metalloprotease Domain
Reactivity:	Human, Horse, Dog, Monkey, Bat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADAMTS4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from Metalloprotease domain of human ADAMTS4. Percent identity with other species by BLAST analysis: Human, Orangutan, Gibbon, Marmoset, Panda, Dog, Bat, Horse (100%), Mouse, Elephant, Pig (94%), Rat, Bovine, Opossum (81%). Type of Immunogen: Synthetic peptide
Specificity:	Human ADAMTS4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Orangutan, Gibbon, Marmoset, Panda, Dog, Bat, Horse (100%) Mouse, Elephant, Pig (94%) Rat, Bovine, Opossum (81%).
Purification:	Immunoaffinity purified

Target Details

Target:	ADAMTS4
Alternative Name:	ADAMTS4 (ADAMTS4 Products)
Background:	Name/Gene ID: ADAMTS4 Subfamily: Metallopeptidase M12B Family: Protease Synonyms: ADAMTS4, ADAMTS-2, ADAMTS-4, ADAM-TS 4, ADAM-TS4, ADMP-1, Aggrecanase-1, KIAA0688
Gene ID:	9507

Application Details

Application Notes:	Approved: IHC, IHC-P (4 µg/mL)
Comment:	Target Species of Antibody: Human
Assay Procedure:	The IHC-pro Immunohistochemistry Protocol

Tissue Preparation

Formalin fixation and embedding in paraffin wax

Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: PBS, less than 0.1 % 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.

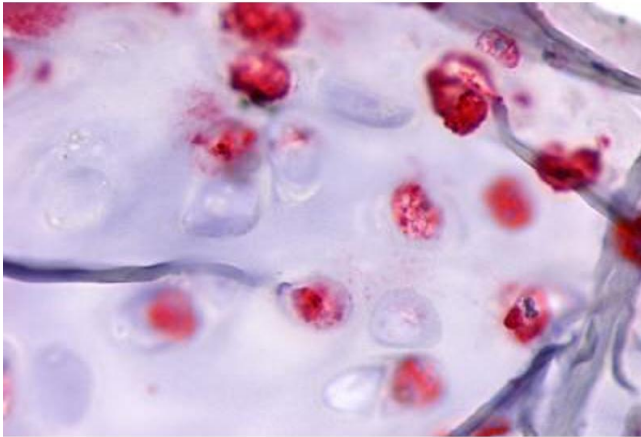
Storage: 4 °C,-20 °C

Handling

Storage Comment: Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.

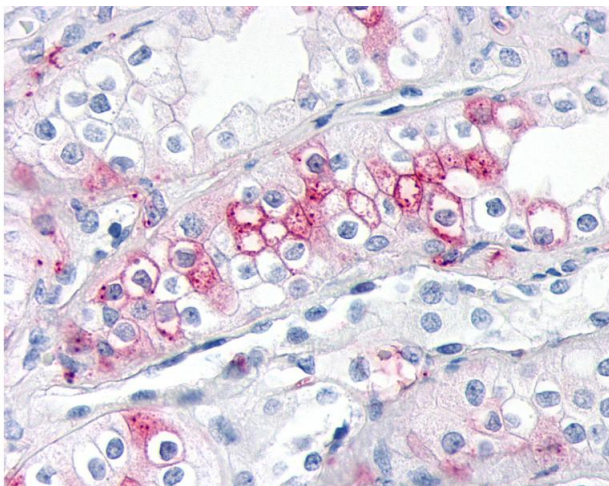
Expiry Date: 12 months

Images



Immunohistochemistry

Image 1. Anti-ADAMTS4 antibody ABIN1048290 IHC staining of human cartilage. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-ADAMTS4 antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.