

Datasheet for ABIN1049272
anti-PTPRA antibody (Extracellular Domain)

3 Images

[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	PTPRA
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 17 amino acid peptide from extracellular domain of human PTPRA. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey (100%), Marmoset, Rat (94%), Hamster, Dog, Bovine, Rabbit (88%), Mouse, Panda, Horse (82%). Type of Immunogen: Synthetic peptide
Specificity:	Human PTPRA. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except HLA-S (59 %).
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey (100%) Marmoset, Rat (94%) Hamster, Dog, Bovine, Rabbit (88%) Mouse, Panda, Horse (82%).
Purification:	Immunoaffinity purified

Target Details

Target:	PTPRA
Alternative Name:	PTPRA / RTPP-alpha (PTPRA Products)
Background:	<p>Name/Gene ID: PTPRA</p> <p>Subfamily: R4</p> <p>Family: Protein Phosphatase</p> <p>Synonyms: PTPRA, HLPR, Hptp alpha, HEPTP, HPTPA, PTPA, Ptpalpha, PTPRL2, PTP alpha, PTPLCA-related phosphatase, R-PTP-alpha, RPTPA, Rptpalphalpha, Tyrosine phosphatase alpha, RTPP alpha, HPTPalphalpha, LRP, PTPase-alpha</p>
Gene ID:	5786

Application Details

Application Notes:	<p>Approved: IHC, IHC-P (15 µg/mL)</p> <p>Usage: Immunohistochemistry: This antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for this antibody was determined to be 15 µg/mL.</p>
Comment:	Target Species of Antibody: Human
Assay Procedure:	<p>The IHC-pro Immunohistochemistry Protocol</p> <p>Tissue Preparation</p> <p>Formalin fixation and embedding in paraffin wax</p> <p>Tissue Sectioning</p> <p>Make 4-µm sections and place on pre-cleaned and charged microscope slides.</p> <p>Heat in a tissue-drying oven for 45 minutes at 60°C</p> <p>Deparaffinization</p> <p>Wash slides in 3 changes of xylene – 5 minutes each at room temperature.</p>

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

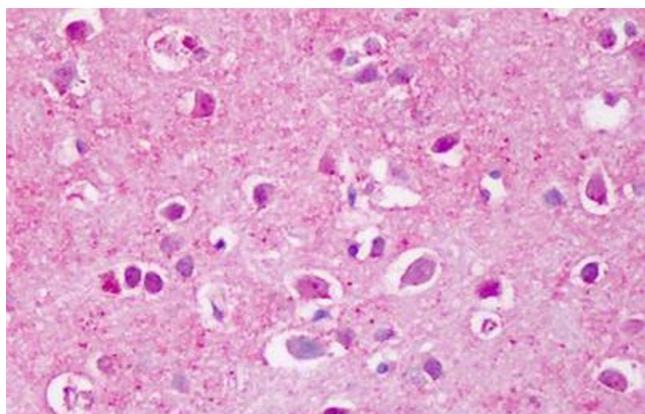
Restrictions:

For Research Use only

Handling

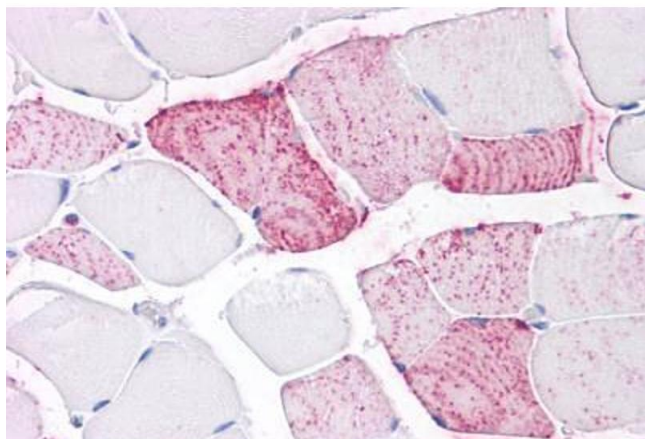
Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and 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



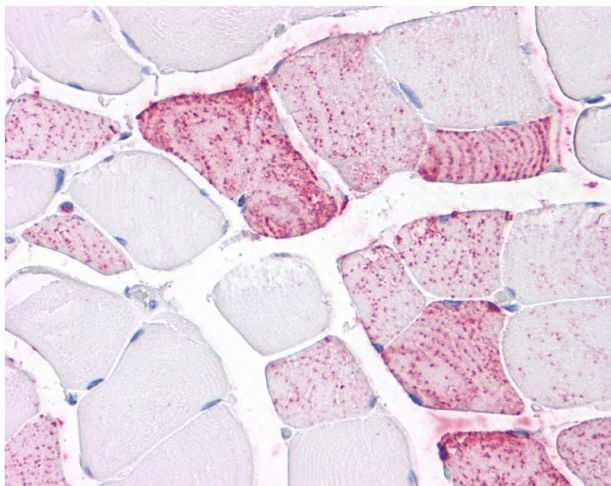
Immunohistochemistry

Image 1. Anti-PTPRA antibody IHC staining of human brain, cortex. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody ABIN1049272 concentration 4 ug/ml.



Immunohistochemistry

Image 2. Anti-PTPRA antibody IHC staining of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody ABIN1049272 concentration 4 ug/ml.



Immunohistochemistry

Image 3. Anti-PTPRA antibody IHC of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 4 ug/ml.