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anti-TRPV4 antibody (Internal Region)

2 Images



Publication



Go to Product page

Overview

| Quantity: | 50 μg |
|----------------------|---|
| Target: | TRPV4 |
| Binding Specificity: | Internal Region |
| Reactivity: | Human, Mouse, Rat, Cow, Pig, Dog, Monkey, Hamster, Horse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

| Brand: | IHC-plus™ |
|-----------------------|---|
| Immunogen: | Synthetic 20 amino acid peptide from internal region of human TRPV4. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Panda, Bovine, Dog, Horse, Pig (100%), Elephant, Rabbit (95%), Turkey, Chicken, Platypus (90%), Xenopus (85%), Stickleback, Zebrafish (80%). |
| | Type of Immunogen: Synthetic peptide |
| Specificity: | Human TRPV4. BLAST analysis of the peptide immunogen showed no homology with other human proteins. |
| Predicted Reactivity: | Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Panda, Bovine, Dog, Horse, Pig (100%) Elephant, Rabbit (95%) |

Product Details

| | Turkey, Chicken, Platypus (90%) Xenopus (85%) Stickleback, Zebrafish (80%). |
|---------------------|---|
| Purification: | Immunoaffinity purified |
| | |
| Target Details | |
| Target: | TRPV4 |
| Alternative Name: | TRPV4 (TRPV4 Products) |
| Background: | Name/Gene ID: TRPV4 |
| | Subfamily: Calcium channel - TRP |
| | Family: Ion Channel |
| | Synonyms: TRPV4, CMT2C, HMSN2C, OTRPC4, SSQTL1, VR-OAC, VRL-2, Osm-9-like TRP |
| | channel 4, SPSMA, TRP12, VRL2, VROAC, SMAL |
| Gene ID: | 59341 |
| Pathways: | Hormone Transport, Cell-Cell Junction Organization |
| Annii atian Dataila | |
| Application Details | |
| Application Notes: | Approved: IF, IHC, IHC-Fr, IHC-P (5 - 10 μg/mL), WB |
| 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 |
| | Rehydration Wash slides in 3 changes of 100% 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

Handling

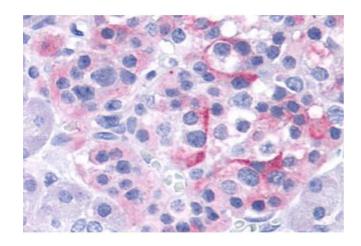
| Buffer: | PBS, less than 0.1 % sodium azide. |
|--------------------|---|
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: |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

Publications

Product cited in:

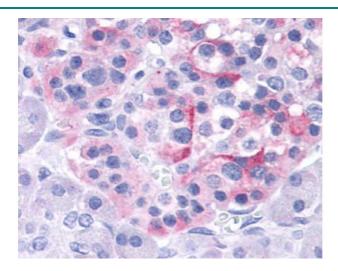
He, Nitti, Piras, Lisa Furfaro, Traverso, Pronzato, Mann: "Heme oxygenase-1-derived bilirubin protects endothelial cells against high glucose-induced damage." in: **Free radical biology & medicine**, Vol. 89, pp. 91-98, (2015) (PubMed).

Images



Immunohistochemistry

Image 1. Anti-TRPV4 antibody ABIN1049441 IHC staining of human pancreas, islet. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-TRPV4 antibody IHC of human pancreas, islet.

Immunohistochemistry of formalin-fixed, paraffinembedded tissue after heat-induced antigen retrieval.