

Datasheet for ABIN7043843
anti-TRPV2 antibody (1st Extracellular Loop)

3 Images

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Overview

Quantity:	25 µL
Target:	TRPV2
Binding Specificity:	1st Extracellular Loop, AA 413-428
Reactivity:	Mouse, Rat
Host:	Guinea Pig
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)HQPSLDQPAIPSSKAT, corresponding to amino acid residues 413-428 of rat TRPV2
Isotype:	IgG
Cross-Reactivity (Details):	Will not recognize the human epitope.
Characteristics:	Guinea pig Anti-TRPV2 (VRL1) (extracellular) Antibody is directed against an epitope of rat TRPV2. Guinea pig Anti-TRPV2 (VRL1) (extracellular) Antibody (#) raised in guinea pigs, can be used in western blot and immunocytochemistry. It has been designed to recognize TRPV2 from mouse and rat samples. The antigen used to immunize guinea pigs is the same as Anti-TRPV2 (VRL1) (extracellular) Antibody (ABIN7043845, ABIN7044002 and ABIN7044003)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

Product Details

Purification: Affinity purified on immobilized antigen.

Target Details

Target: TRPV2

Alternative Name: TRPV2 (VRL1) ([TRPV2 Products](#))

Background: Alternative names: TRPV2 (VRL1), Transient receptor potential cation channel subfamily V member 2, Vanilloid receptor-like protein 1, VRL-1, Osm-9-like TRP channel 2, OTRPC2, Stretch-activated channel 2B, SAC2B

Gene ID: 29465

NCBI Accession: [NM_016113](#)

UniProt: [Q9WUD2](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.

Concentration: 0.85 mg/mL

Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % 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.

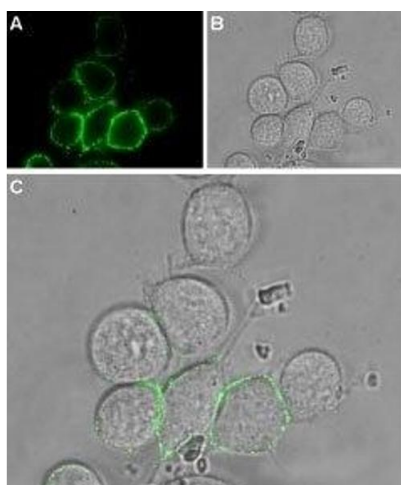
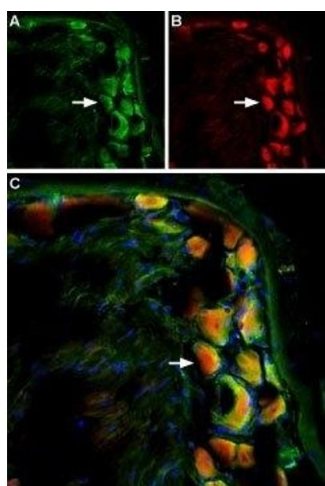
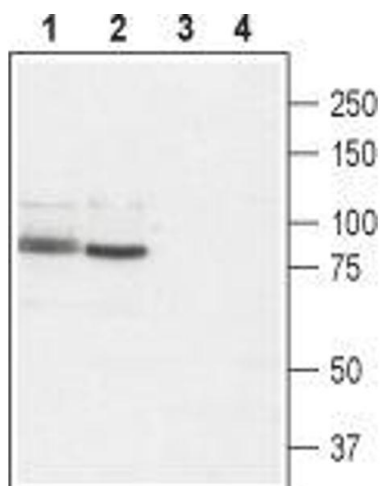
Storage: RT, 4 °C, -20 °C

Storage Comment: Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.

For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of rat brain (lanes 1 and 3) and rat RBL basophilic leukemia cell lysate (lanes 2 and 4): - 1,2. Guinea pig Anti-TRPV2 (VRL1) (extracellular) Antibody (ABIN7043843, ABIN7045390 and ABIN7045391), (1:2000). 3,4. Guinea pig Anti-TRPV2 (VRL1) (extracellular) Antibody, preincubated with TRPV2/VRL1 (extracellular) Blocking Peptide (#BLP-CC039).

Immunohistochemistry

Image 2. Multiplex staining of TRPV2 and mGluR5 in rat DRG - Immunohistochemistry of rat dorsal root ganglion using Guinea pig Anti-TRPV2 (VRL1) (extracellular) Antibody (ABIN7043843, ABIN7045390 and ABIN7045391) (1:60) and Anti-mGluR5 (extracellular)-ATTO Fluor-594 Antibody (ABIN7043251), (red), (1:60). A. TRPV2 staining (green). B. mGluR5 staining (red). C. Merge of A and B demonstrates co-localization of TRPV2 and mGluR5 in DRG cells. Nuclei are stained using DAPI as the counterstain (blue).

Immunocytochemistry

Image 3. Expression of TRPV2 in rat RBL cells - Cell surface detection of TRPV2 in intact living rat basophilic leukemia (RBL) cells. A. Extracellular staining of cells using Guinea pig Anti-TRPV2 (VRL1) (extracellular) Antibody (ABIN7043843, ABIN7045390 and ABIN7045391), (1:100) followed by goat anti-guinea pig-AlexaFluor-488 secondary antibody (green). B. Live view of the cells. C. Merge image of A and B.