

Datasheet for ABIN7043852

anti-TRPV4 antibody (3rd Extracellular Loop)

5 Images

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Overview

Quantity:	25 µL
Target:	TRPV4
Binding Specificity:	3rd Extracellular Loop, AA 647-662
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
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)EDQSN(S)TVPSYPA(S)RD, corresponding to amino acid residues 647-662 of rat TRPV4
Isotype:	IgG
Characteristics:	Anti-TRPV4 (extracellular) Antibody (ABIN7043852, ABIN7044071 and ABIN7044072)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, live cell imaging, and immunocytochemistry applications. It has been designed to recognize TRPV4 from human, rat, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

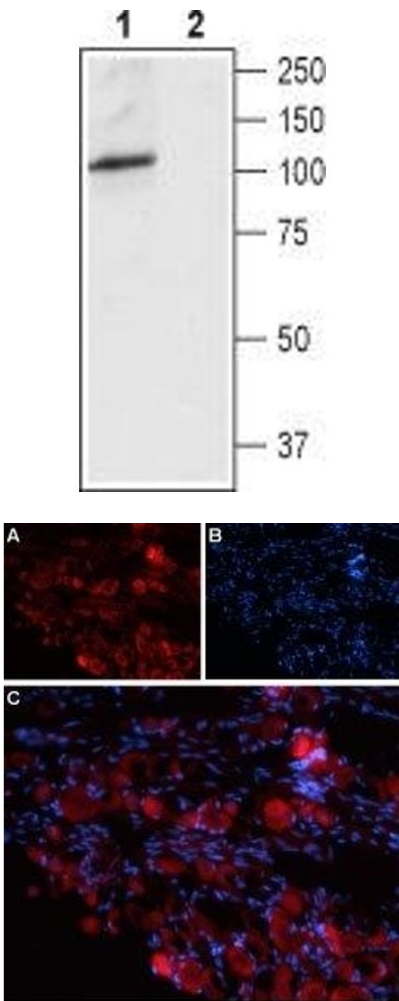
Target:	TRPV4
Alternative Name:	TRPV4 (TRPV4 Products)
Background:	Alternative names: TRPV4, OTRPC4, VRL-2, VR-OAC, TRP12
Gene ID:	66026
NCBI Accession:	NM_021625
UniProt:	Q9ERZ8
Pathways:	Hormone Transport, Cell-Cell Junction Organization

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:	1 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:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>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).</p>



Western Blotting

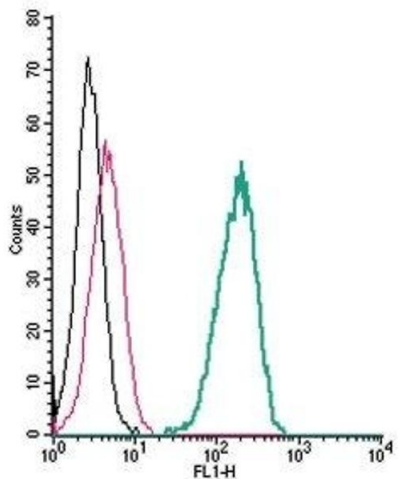
Image 1. Western blot analysis of rat brain lysate: - 1. Anti-TRPV4 (extracellular) Antibody (ABIN7043852, ABIN7044071 and ABIN7044072), (1:200). 2. Anti-TRPV4 (extracellular) Antibody, preincubated with TRPV4 (extracellular) Blocking Peptide (#BLP-CC124).

Immunohistochemistry

Image 2. Expression of TRPV4 in rat DRG - Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-TRPV4 (extracellular) Antibody (ABIN7043852, ABIN7044071 and ABIN7044072). A. TRPV4 labeling appears in neuronal cell bodies. B. Nuclear staining using DAPI as counter stain. C. merged images of A and B.

Flow Cytometry

Image 3. Cell surface detection of TRPV4 by indirect flow cytometry in live intact human THP-1 monocytic leukemia cells: (black line) Cells. (red line) Cells + goat-anti-rabbit-FITC. (green line) Cells + Anti-TRPV4 (extracellular) Antibody (ABIN7043852, ABIN7044071 and ABIN7044072), (2.5 µg) + goat-anti-rabbit-FITC.



Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7043852.