

Datasheet for ABIN7043839

anti-TRPV1 antibody (3rd Extracellular Loop, Cys616) (Atto 488)



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3 Images

Overview

Quantity:	50 µL
Target:	TRPV1
Binding Specificity:	3rd Extracellular Loop, AA 605-619, Cys616
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPV1 antibody is conjugated to Atto 488
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

Product Details

Immunogen:	<p>Immunogen: Synthetic peptide</p> <p>Immunogen Sequence: (C)NSLPMESTPHK*SRGS, corresponding to amino acid residues 605-619 of rat TRPV1 with replacement of cysteine 616 (C616) with serine (*S)</p>
Isotype:	IgG
Cross-Reactivity (Details):	Recognizes TRPV1 from rat only.
Characteristics:	<p>Anti-Rat TRPV1 (VR1) (extracellular) Antibody (ABIN7043838, ABIN7043986 and ABIN7043987)) is a highly specific antibody directed against an extracellular epitope of the rat TRPV1 channel. The antibody can be used in western blot, immunohistochemistry, and live cell imaging applications. It has been designed to recognize TRPV1 from rat samples only. \nAnti-Rat-TRPV1 (VR1) (extracellular)-ATTO Fluor-488 Antibody (#ABIN7043839) is directly labeled</p>

Product Details

with an ATTO-488 fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The ATTO-488 label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-Rat-TRPV1 (VR1) (extracellular)-ATTO Fluor-488 Antibody has been tested in immunohistochemistry and live cell imaging applications and is especially suited for experiments requiring simultaneous labeling of different markers.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: TRPV1

Alternative Name: TRPV1 (VR1) ([TRPV1 Products](#))

Background: Alternative names: TRPV1 (VR1), Transient receptor potential cation channel subfamily V member 1, Capsaicin receptor, Vanilloid receptor 1, OTRPC1

Gene ID: 83810

NCBI Accession: [NM_018727](#)

UniProt: [O35433](#)

Pathways: [Dicarboxylic Acid Transport](#)

Application Details

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

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 50 µL double distilled water (DDW).

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

Handling

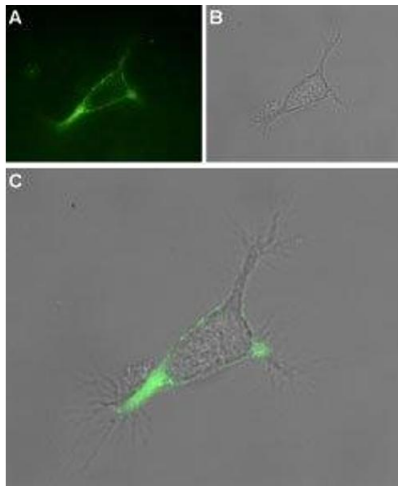
should be handled by trained staff only.

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.

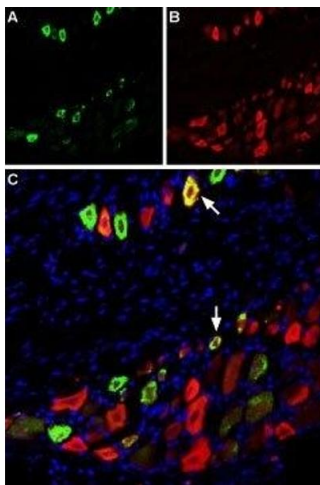
Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



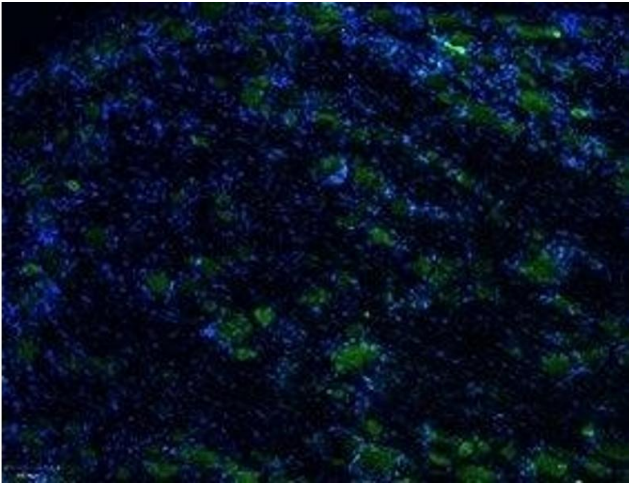
Immunocytochemistry

Image 1. Expression of TRPV1 in rat PC12 cells - Cell surface detection of TRPV1 in intact living Pheochromocytoma (PC12) cells. A. Extracellular staining of cells using Anti-Rat TRPV1 (VR1) (extracellular)-ATTO Fluor-488 Antibody (ABIN7043839), (1:25), (green). B. Live view of the cell. C. Merge images of A and B.



Immunohistochemistry

Image 2. Multiplex staining of TRPV1 and NaV1.8 in rat DRG - Immunohistochemical staining of rat dorsal root ganglion (DRG) using Anti-Rat TRPV1 (VR1) (extracellular)-ATTO Fluor-488 Antibody (ABIN7043839), (green), (1:60) and Anti-NaV1.8 (SCN10A)-ATTO Fluor-594 Antibody (ABIN7043654), (red), (1:60). A. TRPV1 staining. B. NaV1.8 staining. C. Merge of A and B demonstrates partial co-localization of TRPV1 and NaV1.8 channels. Nuclei stained using DAPI as the counterstain (blue).



Immunohistochemistry

Image 3. Expression of TRPV1 in rat DRG - Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-Rat TRPV1 (VR1) (extracellular)-ATTO Fluor-488 Antibody (ABIN7043839), (1:50), (green). TRPV1 is expressed in medium and small DRG neurons. Hoechst 33342 is used as the counterstain (blue).