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## anti-TRPV1 antibody (C-Term, Intracellular)





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|----------------------|--|
| Quantity:            | 25 μL  |
| Target:              | TRPV1  |
| Binding Specificity: | AA 824-838, C-Term, Intracellular  |
| Reactivity:          | Human, Rat, Mouse  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This TRPV1 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS) |
| Product Details      |  |
| Immunogen:           | Immunogen: Synthetic peptide   |
|                      | (0) (0) (0) (0) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1   |

| Immunogen:       | Immunogen: Synthetic peptide Immunogen Sequence: (C)EDAEVFKDSMVPGEK, corresponding to amino acid residues 824-838 of rat TRPV1  |
|------------------|---|
| Isotype:         | IgG   |
| Characteristics: | Anti-TRPV1 (VR1) Antibody (ABIN7043841, ABIN7043988 and ABIN7043989)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize TRPV1 from mouse, rat, and human samples. |
| Purification:    | Affinity purified on immobilized antigen.   |

### **Target Details**

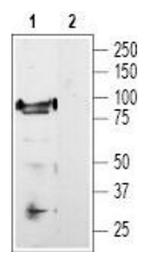
| Target:           | TRPV1  |  |
|-------------------|--|--|
| Alternative Name: | TRPV1 (VR1) (TRPV1 Products)   |  |
| Background:       | Alternative names: TRPV1 (VR1), Transient receptor potential cation channel subfamily V member 1, Capsaicin receptor, Vanilloid receptor 1, OTRPC1 |  |
| Gene ID:          | 83810  |  |
| NCBI Accession:   | NM_018727  |  |
| UniProt:          | 035433   |  |
| Pathways:         | Dicarboxylic Acid Transport  |  |

## Application Details

| Application Notes: | Optimal working dilution should be determined by the investigator. |
|--------------------|--|
| Restrictions:      | For Research Use only  |

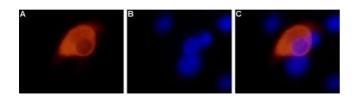
## Handling

| Format:            | Lyophilized   |
|--------------------|---|
| Reconstitution:    | $25~\mu\text{L}$ , $50~\mu\text{L}$ or $0.2~m\text{L}$ double distilled water (DDW), depending on the sample size.  |
| Concentration:     | 0.8 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). |



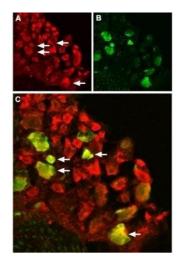
#### **Western Blotting**

**Image 1.** Western blot analysis of rat DRG lysate: - 1. Anti-TRPV1 (VR1) Antibody (ABIN7043841, ABIN7043988 and ABIN7043989), (1:200).2. Anti-TRPV1 (VR1) Antibody, preincubated with TRPV1/VR1 Blocking Peptide (#BLP-CC030).



#### **Immunocytochemistry**

Image 2. Expression of TRPV1 in rat DRG primary culture - Immunocytochemical staining of paraformaldehyde-fixed and permeabilized rat dorsal root ganglia (DRG) primary cells with Anti-TRPV1 (VR1) Antibody (ABIN7043841, ABIN7043988 and ABIN7043989), (1:200). A. Staining followed by goat anti-rabbit-AlexaFluor-555 secondary antibody. B. Nuclear staining using the cell-permeable dye Hoechst 33342. C. Merged image of panels A and B.



#### **Immunohistochemistry**

Image 3. Expression of TRPV1 in rat DRG - Immunohistochemical staining of rat dorsal root ganglion (DRG) using Anti-TRPV1 (VR1) Antibody (ABIN7043841, ABIN7043988 and ABIN7043989). A. TRPV1 (red) in DRG neurons. B. Staining with mouse anti-Parvalbumin (green) in the same DRG section. C. Confocal merge of TRPV1 and Parvalbumin demonstrates colocalization (arrows).

Please check the product details page for more images. Overall 4 images are available for ABIN7043841.