

Datasheet for ABIN7043850

anti-TRPV4 antibody (C-Term, Intracellular)[Go to Product page](#)

4 Images

Overview

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity: | 25 µL |
| Target: | TRPV4 |
| Binding Specificity: | AA 853-871, C-Term, Intracellular |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TRPV4 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunoprecipitation (IP) |

Product Details

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| Immunogen: | Immunogen: Synthetic peptide Immunogen Sequence: CDGHQQGYAPKWRAEDAPL, corresponding to amino acid residues 853-871 of rat TRPV4 |
| Isotype: | IgG |
| Characteristics: | Anti-TRPV4 Antibody (ABIN7043850, ABIN7043994 and ABIN7043995) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunoprecipitation, indirect flow cytometry, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize TRPV4 from human, rat, and mouse samples. |
| Purification: | Affinity purified on immobilized antigen. |

Target Details

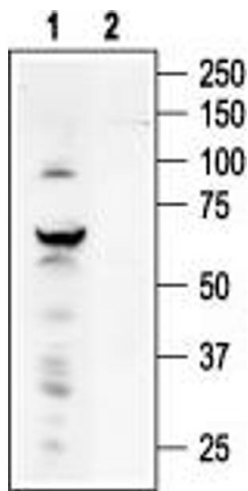
| | |
|-------------------|--------------------------------------------------------------------|
| Target: | TRPV4 |
| Alternative Name: | TRPV4 (TRPV4 Products) |
| Background: | Alternative names: TRPV4, OTRPC4, VRL-2, VR-OAC, TRP12 |
| Gene ID: | 66026 |
| NCBI Accession: | NM_021625 |
| UniProt: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

Application Details

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

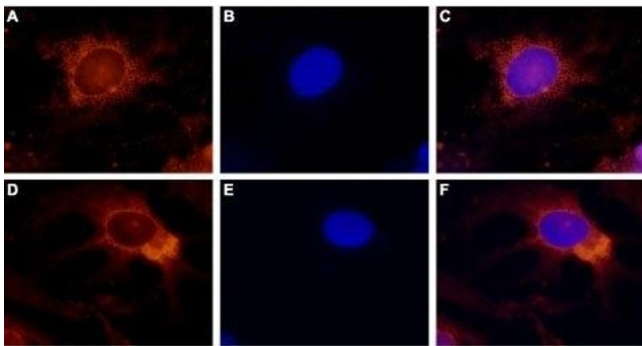
Handling

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| Format: | Lyophilized |
| Reconstitution: | 25 μ L, 50 μ L or 0.2 mL 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: | <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> |



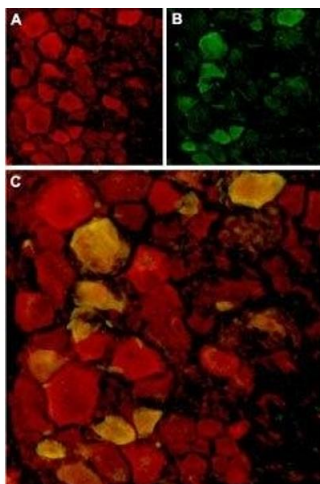
Western Blotting

Image 1. Western blot analysis of ND7/23 Mouse neuroblastoma /rat dorsal root ganglion neuron hybrid cell line lysate: - 1. Anti-TRPV4 Antibody (ABIN7043850, ABIN7043994 and ABIN7043995), (1:200).2. Anti-TRPV4 Antibody, preincubated with TRPV4 Blocking Peptide (#BLP-CC034).



Immunocytochemistry

Image 2. Expression of TRPV4 in rat DRG primary culture - Immunocytochemical staining of paraformaldehyde-fixed and permeabilized rat dorsal root ganglion (DRG) primary culture. A, D. Staining using Anti-TRPV4 Antibody (ABIN7043850, ABIN7043994 and ABIN7043995), (1:500), followed by goat anti-rabbit-AlexaFluor-555 secondary antibody. B, E. Nuclear staining of cells using the cell-permeable dye Hoechst 33342. C. Merged image of panels A and B. F. Merged image of panels D and E.



Immunohistochemistry

Image 3. Expression of TRPV4 in rat DRG - Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-TRPV4 Antibody (ABIN7043850, ABIN7043994 and ABIN7043995). A. TRPV4 (red) in DRG neurons. B. Staining with mouse anti-Parvalbumin (green) in the same DRG section. C. Confocal merge of TRPV4 and Parvalbumin demonstrates colocalization.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7043850.