



[Go to Product page](#)

Datasheet for ABIN2776284

## anti-TRPV4 antibody (Middle Region)

5 Images

1 Publication

### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | TRPV4  |
| Binding Specificity: | Middle Region  |
| Reactivity:          | Human, Mouse, Rat, Cow, Pig, Dog, Rabbit, Guinea Pig |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This TRPV4 antibody is un-conjugated                 |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC)    |

### Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human TRPV4  |
| Sequence:             | RVDEVNWSHW NQNLGIINED PGKNETYQYY GFSHTVGRLR RDRWSSVPR   |
| Predicted Reactivity: | Cow: 93%, Dog: 86%, Guinea Pig: 86%, Human: 100%, Mouse: 86%, Pig: 93%, Rabbit: 100%, Rat: 93%                                  |
| Characteristics:      | This is a rabbit polyclonal antibody against TRPV4. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification:         | Affinity Purified   |

### Target Details

|         |       |
|---------|-------|
| Target: | TRPV4 |
|---------|-------|

## Target Details

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Alternative Name: TRPV4 ([TRPV4 Products](#))

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Background: TRPV4 is a member of the OSM9-like transient receptor potential channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. TRPV4 is a Ca<sup>2+</sup>-permeable, nonselective cation channel that is thought to be involved in the regulation of systemic osmotic pressure. This gene encodes a member of the OSM9-like transient receptor potential channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. The encoded protein is a Ca<sup>2+</sup>-permeable, nonselective cation channel that is thought to be involved in the regulation of systemic osmotic pressure. Two transcript variants encoding different isoforms have been found for this gene.

Alias Symbols: OTRPC4, TRP12, VR-OAC, VRL-2, VRL2, VROAC, CMT2C, SPSMA, HMSN2C, SSQTL1

Protein Interaction Partner: UBC, ARRB2, KRIT1, ITCH, PACSIN3, PACSIN1, TRPV4, PACSIN2, MAP7, SRC, LYN, YES1, LCK, HCK, FYN, CALM1, OS9, PACS1,

Protein Size: 811

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Molecular Weight: 91 kDa

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Gene ID: 59341

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NCBI Accession: [NM\\_147204](#), [NP\\_671737](#)

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Pathways: [Hormone Transport](#), [Cell-Cell Junction Organization](#)

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## Application Details

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

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Comment: Antigen size: 811 AA

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: Lot specific

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Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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## Handling

should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

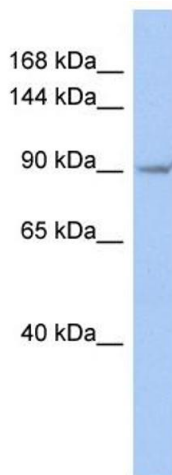
Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

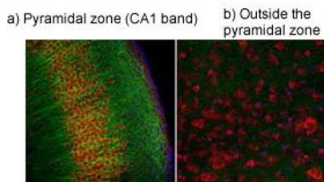
Product cited in: Mullins, Crawford, Khuder, Hernandez, Yoon, Willey: "CEBPG transcription factor correlates with antioxidant and DNA repair genes in normal bronchial epithelial cells but not in individuals with bronchogenic carcinoma." in: **BMC cancer**, Vol. 5, pp. 141, (2005) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** WB Suggested Anti-TRPV4 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: HT1080 cell lysate



### TRPV4 (ARP35416\_P050)

Immunohistochemistry

Sample: Rat Hippocampus

Primary Antibody: 1:500

Secondary Antibody: 1:500 (Alexa

Fluor 568-conjugated goat anti-rabbit-- Invitrogen)

Application data in forum

#### Legend

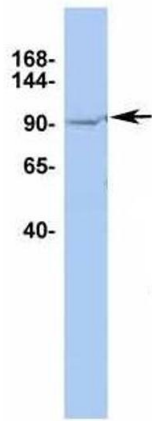
Blue-- Dapi nuclei  
Red-- Primary Antibody  
Green -- anti-Map2 (sigma)

Submitted by:  
Dr. Ji-Zhong Bai  
University of Auckland

### Immunohistochemistry

**Image 2.**

## TRPV4



### Western Blotting

**Image 3.** Host: Rabbit Target Name: TRPV4 Sample Type:  
HT1080 Antibody Dilution: 1.0ug/ml

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2776284.