

**TRPV6 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16018b****Specification**

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**TRPV6 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9H1D0](#)**TRPV6 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 55503**Other Names**

Transient receptor potential cation channel subfamily V member 6, TrpV6, CaT-like, CaT-L, Calcium transport protein 1, CaT1, Epithelial calcium channel 2, ECAC2, TRPV6, ECAC2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TRPV6 Antibody (C-term) Blocking Peptide - Protein Information****Name** TRPV6**Synonyms** ECAC2**Function**

Calcium selective cation channel that mediates Ca(2+) uptake in various tissues, including the intestine (PubMed: [11097838](http://www.uniprot.org/citations/11097838) target="\_blank">11097838</a>, PubMed: [11278579](http://www.uniprot.org/citations/11278579) target="\_blank">11278579</a>, PubMed: [11248124](http://www.uniprot.org/citations/11248124) target="\_blank">11248124</a>, PubMed: [15184369](http://www.uniprot.org/citations/15184369) target="\_blank">15184369</a>, PubMed: [23612980](http://www.uniprot.org/citations/23612980) target="\_blank">23612980</a>, PubMed: [29258289](http://www.uniprot.org/citations/29258289) target="\_blank">29258289</a>). Important for normal Ca(2+) ion homeostasis in the body, including bone and skin (By similarity). The channel is activated by low internal calcium level, probably including intracellular calcium store depletion, and the current exhibits an inward rectification (PubMed: [15184369](http://www.uniprot.org/citations/15184369) target="\_blank">15184369</a>). Inactivation includes both a rapid Ca(2+)-dependent and a slower Ca(2+)-calmodulin-dependent mechanism; the latter may be regulated by phosphorylation. In vitro, is slowly inhibited by Mg(2+) in a voltage-independent manner. Heteromeric assembly with TRPV5 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers

exhibit voltage-dependent gating.

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Expressed at high levels in the gastrointestinal tract, including esophagus, stomach, duodenum, jejunum, ileum and colon, and in pancreas, placenta, prostate and salivary gland Expressed at moderate levels in liver, kidney and testis. Expressed in trophoblasts of placenta villus trees (at protein level)(PubMed:23612980). Expressed in locally advanced prostate cancer, metastatic and androgen-insensitive prostatic lesions but not detected in healthy prostate tissue and benign prostatic hyperplasia

**TRPV6 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**TRPV6 Antibody (C-term) Blocking Peptide - Images****TRPV6 Antibody (C-term) Blocking Peptide - Background**

Calcium-permeable channels, such as TRPV6, participate in neurotransmission, muscle contraction, and exocytosis by providing calcium as an intracellular second messenger. Depending on the tissue, transcellular calcium transport may be regulated by vitamin D, parathyroid hormone (PTH; MIM 168450), or calcitonin (CALCA; MIM 114130).

**TRPV6 Antibody (C-term) Blocking Peptide - References**

Zhao, X.Z., et al. Zhonghua Nan Ke Xue 16(5):423-427(2010) Sopjani, M., et al. J. Membr. Biol. 233 (1-3), 35-41 (2010) :Van Haute, C., et al. ScientificWorldJournal 10, 1597-1611 (2010) :Kennedy, B.G., et al. Mol. Vis. 16, 665-675 (2010) :Kessler, T., et al. BMC Cancer 9, 380 (2009) :