TRPV6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPV6, Polyclonal Antibody
Full Product Name	TRPV6 Antibody
Product Gene Name	anti-TRPV6 antibody
Product Synonym Names	ABPZF; Alu binding protein with zinc finger domain; Calcium channel CaT1; Calcium transport protein 1; CaT L; CaT1; ecac; ECaC2; Epithelial apical membrane calcium transporter/channel CaT1; Epithelial calcium channel 2; HSA277909; LP6728; NUDC; Transient receptor potential cation channel subfamily V member 6; TrpV6; ZFAB antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Affinity Purified
Concentration	0.67 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: TRPV6 (MBS540489) Positive Control: TRPV6 (MBS543356)
Antibody/Peptide Pairs	TRPV6 peptide (MBS544623) is used for blocking the activity of TRPV6 antibody (MBS540489)
Molecular Weight	68,446 Da
OMIM	606680
Immunogen	Synthetic peptide taken from the region within amino acids 700-732 of TRPV6 protein. The peptide was covalently modified to acheive desired antigenicity. Modified peptide was covalently coupled to a carrier protein by heterobifunctional cross linker for immunogen preparation.
Expression	Abundantly expressed in pancreas and placenta, and to a much lesser extend in stomach and kidney. Not detected in intestine.
Molecular Function	Calcium channel activity; Calmodulin binding
Structure	Homotetramer and probably heterotetramer with TRPV5. Interacts with TRPV5. Interacts with S100A10 and probably with the ANAX2-S100A10 heterotetramer. The interaction with S100A10 is required for the trafficking to the plasma membrane. Interacts with calmo
Subcellular Location	Cell membrane; Multi-pass membrane protein
Product Categories/Family for anti-TRPV6 antibody	Primary Antibodies; Signal Transduction; Calcium Binding; TRPV6 Antibody
Applications Tested/Suitable for anti-TRPV6 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-TRPV6 antibody	Dot Blot: 1:10,000 ELISA: 1:10,000 Western Blot: 1:500

Related Product Information for anti-TRPV6 antibody	Affinity Purified Transient receptor potential cation channel, subfamily V, member 6 Antibody Calcium selective cation channel probably involved in Ca2+ uptake in various tissues, including Ca2+ reabsorption in intestine. The channel is activated by low internal calcium level, probably including intracellular calcium store depletion, and the current exhibits an inward rectification. Inactivation includes both, a rapid Ca2+-dependent and a slower Ca2+-calmodulin-dependent mechanism, the latter may be regulated by phosphorylation. In vitro, is slowly inhibited by Mg2+ in a voltage-independent manner. Heteromeric assembly with TRPV5 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating.
Other Notes	Small volumes of anti-TRPV6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRPV6 purchase	MBS540489 is an antibody targeting TRPV6. Also known as TRPV6 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPV6. It may not necessarily be applicable to this product.

NCBI GI #	119572284
NCBI GeneID	55503
NCBI Accession #	EAW51899.1
UniProt Secondary Accession #	Q8TDL3; Q8WXR8; Q96LC5; Q9H1D1; Q9H296; A4D2I8
UniProt Related Accession #	Q9H1D0
NCBI Official Full Name	transient receptor potential cation channel, subfamily V, member 6, isoform CRA_c
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily V member 6
NCBI Official Symbol	TRPV6
NCBI Official Synonym Symbols	CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728; HSA277909
UniProt Protein Name	Transient receptor potential cation channel subfamily V member 6
UniProt Synonym Protein Names	CaT-like; CaT-L; Calcium transport protein 1; CaT1; Epithelial calcium channel 2; ECaC2
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	TRPV6
UniProt Synonym Gene Names	ECAC2; TrpV6; CaT-L; CaT1; ECaC2
UniProt Entry Name	TRPV6_HUMAN
NCBI Protein Information	transient receptor potential cation channel subfamily V member 6
NCBI Summary for TRPV6	This gene encodes a member of a family of multipass membrane proteins that functions as calcium channels. The encoded protein contains N-terminal ankyrin repeats, which are required for channel assembly and regulation. Translation initiation for this protein occurs at a non-AUG start codon that is decoded as methionine. This gene is situated next to a closely related gene for transient receptor potential cation channel subfamily V member 5 (TRPV5). This locus has experienced positive selection in non-African populations, resulting in several non-synonymous codon differences among individuals of different genetic backgrounds. [provided by RefSeq, Feb 2015]

UniProt Comments for TRPV6	TRPV6: Calcium selective cation channel probably involved in Ca(2+) uptake in various tissues, including Ca(2+) reabsorption in intestine. The channel is activated by low internal calcium level, probably including intracellular calcium store depletion, and the current exhibits an inward rectification. 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. Belongs to the transient receptor (TC 1.A.4) family. TrpV subfamily. TRPV6 sub-subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Channel, calcium; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 7q34 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: calcium channel activity; calmodulin binding; protein binding Biological Process: calcium ion homeostasis; calcium ion transport; response to calcium ion
Research Articles on TRPV6	**1.** our results demonstrate that hCAT-1 is a key component of efficient T-cell activation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/trpv6/540489