

ARG42008 anti-TRPV6 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TRPV6
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TRPV6
Species	Human
Immunogen	Synthetic peptide within aa. 1-100 of Human TRPV6 (NP_061116.5).
Conjugation	Un-conjugated
Alternate Names	CaT-like; LP6728; CaT1; ABP/ZF; CATL; ZFAB; HSA277909; CAT1; CaT-L; ECAC2; ECAC2; Transient receptor potential cation channel subfamily V member 6; Epithelial calcium channel 2; TrpV6; Calcium transport protein 1

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	BxPC-3	
Observed Size	~ 75 kDa	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol	TRPV6
Gene Full Name	transient receptor potential cation channel, subfamily V, member 6
Background	<p>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]</p>
Function	<p>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 (By similarity). [UniProt]</p>
Calculated Mw	87 kDa
PTM	<p>Glycosylated.</p> <p>Phosphorylation at Tyr-201 by SRC leads to an increased calcium influx through the channel. Probably dephosphorylated at this site by PTPN1 (By similarity). Phosphorylation by PRKCA at the calmodulin binding site delays channel inactivation (PubMed:11248124). [UniProt]</p>
Cellular Localization	Cell membrane; Multi-pass membrane protein. [UniProt]

Images



ARG42008 anti-TRPV6 antibody WB image

Western blot: 25 µg of BxPC-3 cell lysate stained with ARG42008 anti-TRPV6 antibody at 1:1000 dilution.