

TRPV6 Polyclonal Antibody

Catalog Number OST00068G

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Zebrafish
Host/Isotope	Rabbit / IgG	<div>Tested Applications</div> <div>Dilution *</div>	
Class	Polyclonal		
Type	Antibody	Immunohistochemistry (IHC)	10-50 µg/mL
Immunogen	A synthetic peptide from zebrafish TRPV6, conjugated to an immunogenic carrier protein	Western Blot (WB)	10-50 µg/mL
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Lyophilized		
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Reconstitute with 500 µL of distilled water.

Background/Target Information

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), or calcitonin (CALCA). 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. 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 BSPRY. Interacts with calmodulin.

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