



TRPV5 Polyclonal Antibody

Catalog No	YP-Ab-06314
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	TRPV5 ECAC1
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	TRPV5 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Calcium transport protein 2;CAT2;ECaC;ECAC1;Epithelial calcium channel 1; Osm 9 like TRP channel 3;OTRPC3;TRPV5;TRPV5 ECAC1;Transient receptor potential cation channel subfamily V member 5 (TrpV5) (Calcium transport protein 2) (CaT2) (Epithelial calcium channel 1) (ECaC) (ECaC1) (Osm-9-like TRP channel 3) (OTRPC3)
Observed Band	80kD
Calculated Molecular Weight	381 aa, 43 kDa
Cell Pathway	Apical cell membrane ; Multi-pass membrane protein . Colocalized with S100A10 and ANAX2 along the apical domain of kidney distal tubular cells (By similarity). The expression of the glycosylated form in the cell membrane is increased in the presence of WNK3 (PubMed:18768590). .
Tissue Specificity	Expressed at high levels in kidney, small intestine and pancreas, and at lower levels in testis, prostate, placenta, brain, colon and rectum.
Function	function:Constitutively active calcium selective cation channel thought to be involved in Ca(2+) reabsorption in kidney and intestine. The channel is activated by low internal calcium level and the current exhibits an inward rectification. A Ca(2+)-dependent feedback regulation includes fast channel inactivation and slow current decay. Heteromeric assembly with TRPV6 seems to modify



channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating.,PTM:Glycosylated.,similarity:Belongs to the transient receptor family. TrpV subfamily.,similarity:Contains 5 ANK repeats.,subcellular location:Colocalized with S100A10 and ANAX2 along the apical domain of kidney distal tubular cells.,subunit:Homotetramer and probably heterotetramer with TRPV6. Interacts with TRPV6. Interacts with S100A10 and probably with the ANAX2-S100A10 heterotetramer. The interaction with S100A1

Background

transient receptor potential cation channel subfamily V member 5(TRPV5) Homo sapiens This gene is a member of the transient receptor family and the TrpV subfamily. The calcium-selective channel encoded by this gene has 6 transmembrane-spanning domains, multiple potential phosphorylation sites, an N-linked glycosylation site, and 5 ANK repeats. This protein forms homotetramers or heterotetramers and is activated by a low internal calcium level. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images