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TRPV5 Antibody

Rabbit mAb
Catalog # AP92795

Product Information

Application	WB, IHC
Primary Accession	Q9NQA5
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	CAT2; ECaC; ECaC1; OTRPC3; TrpV5;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	82562

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human TRPV5
Description	Constitutively active calcium selective cation channel thought to be involved in Ca(2+) reabsorption in kidney and intestine.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

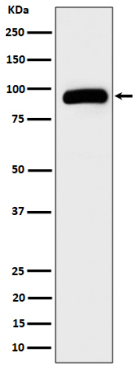
Name	TRPV5
Synonyms	ECAC1 {ECO:0000303|PubMed:10945469}
Function	Constitutively active calcium selective cation channel thought to be involved in Ca(2+) reabsorption in kidney and intestine (PubMed:11549322, PubMed:18768590). Required for normal Ca(2+) reabsorption in the kidney distal convoluted tubules (By similarity). The channel is activated by low internal calcium level and the current exhibits an inward rectification (PubMed:11549322, PubMed:18768590). A Ca(2+)-dependent feedback regulation includes fast channel inactivation and slow current decay (By similarity). Heteromeric assembly with TRPV6 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating (By similarity).
Cellular Location	Apical cell membrane; Multi-pass membrane protein. Note=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)

{ECO:0000250|UniProtKB:P69744, ECO:0000269|PubMed:18768590}

Tissue Location

Expressed at high levels in kidney, small intestine and pancreas, and at lower levels in testis, prostate, placenta, brain, colon and rectum.

Images



Western blot analysis of TRPV5 expression in HepG2 cell lysate.

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