SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-TRPV6 antibody

Catalog Number: SL15506R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	TRPV6
Immunogen:	KLH conjugated synthetic peptide derived from human TRPV6: 4-100/725
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	Flow-Cyt=3ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat)
Predicted MW.:	83kDa
Subcellular Location:	The cell membrane
Background:	This gene encodes a member of the vanilloid family of transient receptor potential (TRP) calcium channel proteins. Proteins in this TRP family have an N-terminal ankyrin repeat domain, which is required for channel assembly and regulation. [provided by RefSeq, Nov 2011]. **Function:** 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). **Subunit:** Homotetramer and probably heterotetramer with TRPV5. Interacts

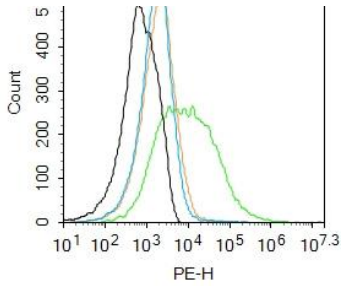
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	with TRPV5. Interacts with S100A10 and probably with the ANAX2-S100A10 heterotetramer. The interaction with S100A10 is required for the trafficking to the plasma membrane. Interacts with BSPRY (By similarity). Interacts with calmodulin. **Subcellular Location:** Cell membrane; Multi-pass membrane protein (By similarity). **Tissue Specificity:** Expressed at high levels in the gastrointestinal tract, including esophagus, stomach, duodenum, jejunum, ileum and colon, and in pancreas, placenta, prostate and salivary gland. Expressed at moderate levels in liver, kidney and testis. Expressed in locally advanced prostate cancer, metastatic and androgen-insensitive prostatic lesions but not detected in healthy prostate tissue and benign prostatic hyperplasia. **Post-translational modifications:** Glycosylated (By similarity). Phosphorylation at Tyr-161 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. **Similarity:** Belongs to the transient receptor (TC 1.A.4) family. TrpV subfamily. TRPV6 sub-subfamily. Contains 6 ANK repeats. **Database links:** **Entrez Gene:** 55503 Human **Entrez Gene:** 64177 Mouse **Entrez Gene:** 114246 Rat Omim: 606680 Human **SwissProt:** Q9H1D0 Human **SwissProt:** Q91WD2 Mouse **SwissProt:** Q9R186 Rat **Unigene:** 302740 Human **Unigene:** 638966 Human **Unigene:** 296889 Mouse **Unigene:** 205943 Rat

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[VALIDATION IMAGES]



Blank control: Mouse kidney.
Primary Antibody (green line): Rabbit Anti-TRPV6 antibody (SL15506R)
Dilution: 3μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1μg /test.
Protocol
The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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