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Rabbit Anti-TRPC1 antibody

SL10404R

Product Name	TRPC1
Chinese Name	瞬时受体电位通道 1 抗体
Alias	TRPC1_HUMAN; Short transient receptor potential channel 1; TrpC1; Transient receptor protein 1; TRP-1; TRP 1; TRP 1 protein; TRP1; TRP1 protein; . HTRP 1; HTRP1; MGC133334; MGC133335; Mtrp1; Transient receptor potential cation channel subfamily C member 1; Transient receptor potential channel 1; Trp related protein 1; TRPC1; Trpc1 transient receptor potential cation channel subfamily C member 1.
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, (predicted: Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit,)
Applications	Flow-Cyt=3ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	87kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TRPC1: 710-750/793 <Cytoplasmic>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

The protein encoded by this gene is a membrane protein that can form a non-selective channel permeable to calcium and other cations. The encoded protein appears to be induced to form channels by a receptor tyrosine kinase-activated phosphatidylinositol second messenger system and also by depletion of intracellular calcium stores. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011].

Function:
Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Seems to be also activated by intracellular calcium store depletion.

Subunit:
Interacts with TRPC4AP. Homotetramer and heterotetramer with TRPC4 and/or TRPC5. Interacts with TRPC3, TRPC4 and TRPC5. Interacts with ITPR3. Interacts with MX1 and RNF24. Interacts with FKBP4.

Subcellular Location:
Membrane; Multi-pass membrane protein.

Tissue Specificity:
Seems to be ubiquitous.

Similarity:
Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC1 sub-subfamily.
Contains 4 ANK repeats.

SWISS:
P48995

Gene ID:
7220

Database links:

Entrez Gene: 7220 Human

Entrez Gene: 22063 Mouse

Entrez Gene: 89821 Rat

Omim: 602343 Human

SwissProt: P48995 Human

SwissProt: Q61056 Mouse

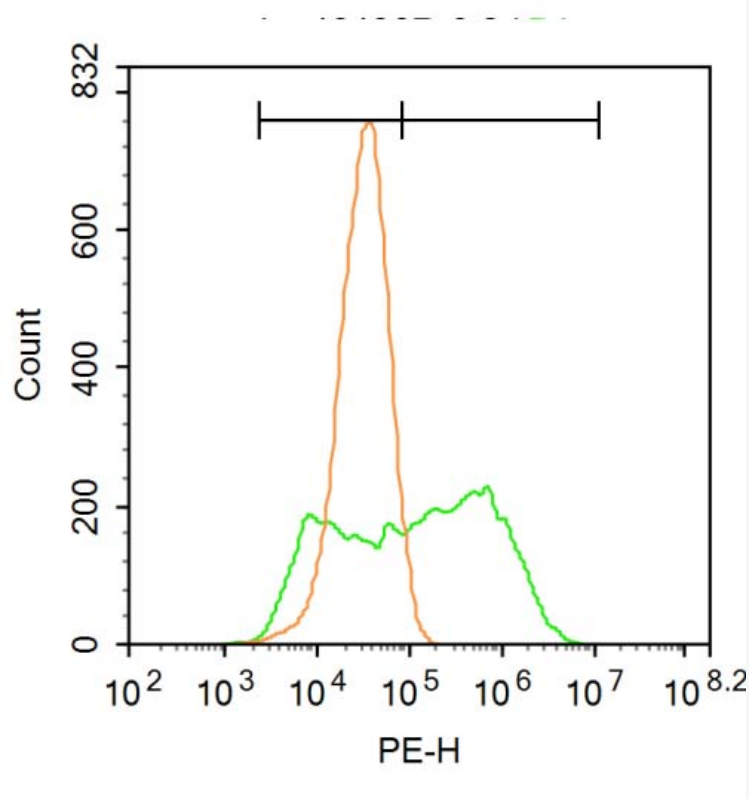
SwissProt: Q9QX01 Rat

Unigene: 250687 Human

Unigene: 149633 Mouse

Unigene: 88592 Rat

Product Picture



Blank control: A549.

Primary Antibody (green line): Rabbit Anti-TRPC1 antibody (SL10404R)

Dilution: 3μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

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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.