



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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000Flow-Cyt=3ug/testICC=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	87kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or 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
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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. STpC subfamily. TRPC1 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

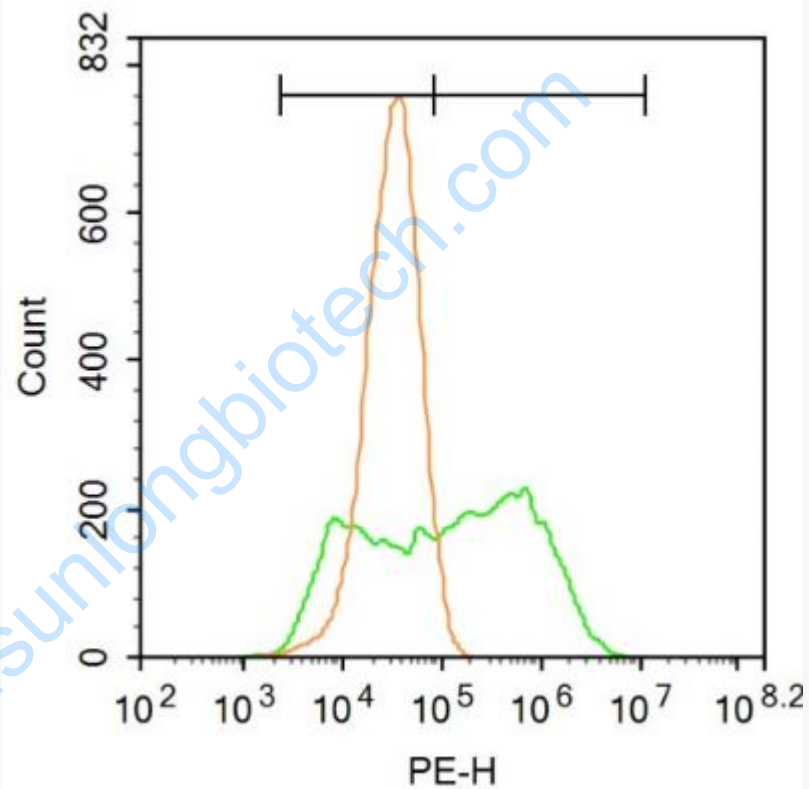
[Unigene: 149633](#)Mouse

[Unigene: 88592](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Blank control: A549.

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

Dilution: $3\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: $1\mu\text{g} / \text{test}$.

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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