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TRPC1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16863b

Product Information

Application	WB, E
Primary Accession	P48995
Other Accession	Q9TUN9, Q61056, O18784, NP_003295.1
Reactivity	Human
Predicted	Bovine, Mouse, Rabbit, Rat, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36853
Calculated MW	91212
Antigen Region	765-793

Additional Information

Gene ID	7220
Other Names	Short transient receptor potential channel 1, TrpC1, Transient receptor protein 1, TRP-1, TRPC1, TRP1
Target/Specificity	This TRPC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 765-793 amino acids from the C-terminal region of human TRPC1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TRPC1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TRPC1
Synonyms	TRP1

Function	Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:11139478, PubMed:15016832, PubMed:39478185). Forms a heteromeric ion channel with TRPC4 or TRPC5 that has reduced calcium permeability compared to the homomeric TRPC4 or TRPC5 channel (PubMed:39478185). Also permeable to monovalent ions including sodium, lithium and cesium ions (PubMed:39478185).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Seems to be ubiquitous.

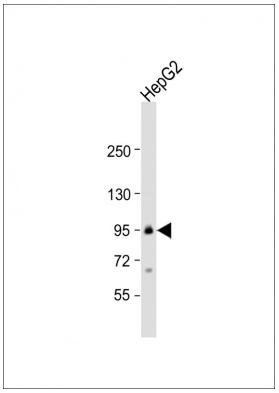
Background

TRPC1 belongs to the transient receptor potential (TRP) superfamily of cation channels. TRP cation channels are involved in diverse physiologic processes, including receptor- and store-operated Ca(2+) entry, mineral absorption, and cell death. They also function as sensors for pain, heat, cold, sound, stretch, and osmotic changes (Zhang et al., 2009 [PubMed 19193631]).

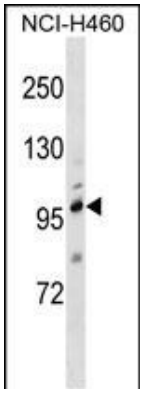
References

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Lu, M., et al. J. Mol. Endocrinol. 44(5):285-294(2010)
Gonzalez-Cobos, J.C., et al. Front. Biosci. 15, 1023-1039 (2010) :
Ingueneau, C., et al. J. Cell. Mol. Med. 13 (8B), 1620-1631 (2009) :

Images



Anti-TRPC1 Antibody (C-term) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 91 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



TRPC1 Antibody (C-term) (Cat. #AP16863b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the TRPC1 antibody detected the TRPC1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.