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Anti-TRP 7 Picoband Antibody

Catalog # ABO11963

Product Information

Application	WB
Primary Accession	Q9HCX4
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Short transient receptor potential channel 7(TRPC7) detection. Tested with WB in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	57113
Other Names	Short transient receptor potential channel 7, TrpC7, Transient receptor protein 7, TRP-7, hTRP7, TRPC7, TRP7
Calculated MW	99562
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Mouse
Subcellular Localization	Cell membrane ; Multi-pass membrane protein . Nucleus envelope .
Source	Eukaryota
Protein Name	Short transient receptor potential channel 7
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human TRP 7 recombinant protein (Position: K716-I862). Human TRP 7 shares 95% amino acid (aa) sequence identity with mouse TRP 7.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC7 sub-subfamily.

Protein Information

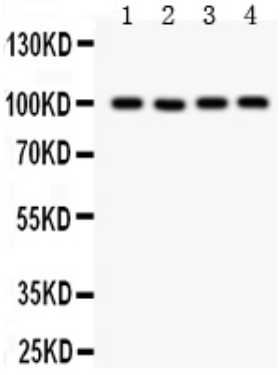
Name	TRPC7 (HGNC:20754)
Synonyms	TRP7
Function	Non-selective, calcium-permeable cation channel. Also transports maganese. Contributes to both spontaneous and receptor stimulation-induced cationic currents. Receptor stimulation, including that of G(q)-coupled or receptor tyrosine kinase pathways, triggers phospholipase C (PLC)-mediated hydrolysis of phosphatidylinositides, producing diacylglycerol (DAG) that activates TRPC7. May also be activated by depletion of intracellular calcium stores. Mediates depolarization of intrinsically photosensitive retinal ganglion cells (ipRGCs) in response to light-induced melanopsin (OPN4)-mediated phototransduction via G(q)-PLC signaling, likely by forming heteromeric TRPC6-TRPC7 channels.
Cellular Location	Cell membrane; Multi-pass membrane protein. Nucleus envelope

Background

Transient receptor potential cation channel, subfamily C, member 7, also known as TRPC7, is a human gene encoding a protein of the same name. Using a cosmid/BAC contig, this gene is mapped to chromosome 21q22.3. TRPC7 is the most abundantly expressed long TRPC in peripheral blood and in some blood cell lines. The protein encoded by this gene is a calcium-permeable cation channel that is regulated by free intracellular ADP-ribose. The encoded protein is activated by oxidative stress and confers susceptibility to cell death.

Images

Anti- TRP 7 Picoband antibody, ABO11963, Western blottingAll lanes: Anti TRP 7 (ABO11963) at 0.5ug/mlWB: Recombinant Human TRP 7 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



Anti- TRP 7 Picoband antibody, ABO11963, Western blottingAll lanes: Anti TRP 7 (ABO11963) at 0.5ug/mlLane 1: Mouse Brain Tissue Lysate at 50ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugPredicted bind size: 99KDObserved bind size: 99KD

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