For Research Use Only

TRPC4 Recombinant antibody

Catalog Number:85334-1-RR

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Basic Information

Catalog Number:
85334-1-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG15698

GenBank Accession Number:
BC104725

GeneID (NCBI):
7223

UNIPROT ID:
Q9UBN4

Full Name:
transient receptor potential cation channel, subfamily C, member 4

Calculated MW:
977 aa, 112 kDa

Purification Method:
Protein A purification

CloneNo.:
242444D7

Recommended Dilutions:
IF/ICC 1:150-1:600

Applications

Tested Applications:
IF/ICC, ELISA

Species Specificity:
human

Positive Controls:

IF/ICC : HUVEC cells,

Background Information

TRPC4 (Transient Receptor Potential Paradigm 4) is a non-selective calcium channel protein widely found in the nervous system and cardiovascular system. TRPC4 regulates intracellular calcium levels through the activation of signaling pathways mediated by Gq/11 and Gi/o-coupled receptors, and is involved in neurotransmission, neuronal excitability, and vascular endothelial cell function. In the nervous system, TRPC4 is associated with neuropsychiatric disorders such as depression and anxiety, and its inhibitors show antidepressant and anxiolytic potential. In the cardiovascular system, TRPC4 affects vascular permeability and diastolic function by regulating calcium ion inward flow and plays an important role in hypoxia-induced pulmonary hypertension. In addition, TRPC4 is involved in thermoregulation, sensing changes in internal temperature to regulate the drop in body temperature. aberrant expression of TRPC4 is associated with a variety of diseases, making it a potential therapeutic target!

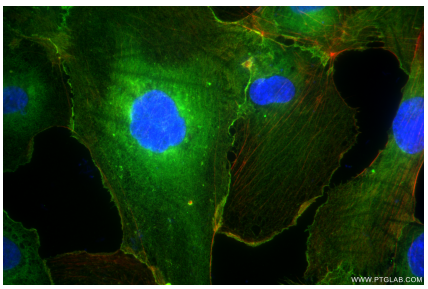
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using TRPC4 antibody (85334-1-RR, Clone: 242444D7) at dilution of 1:300 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).