For Research Use Only

# TRPC4 Recombinant antibody, PBS Only

Catalog Number:85334-2-PBS

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## Basic Information

Catalog Number:
85334-2-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

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

Observed MW:
140 kDa

Purification Method:
Protein A purification

CloneNo.:
242444F8

## Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

## 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 -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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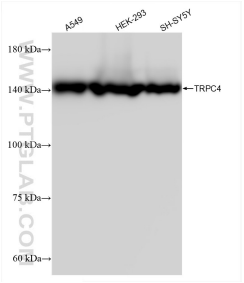
## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 85334-2-RR (TRPC4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85334-2-PBS in a different storage buffer formulation.