

# CoraLite® Plus 488-conjugated TRPC4 Recombinant antibody

Catalog Number: CL488-85334

## Basic Information

**Catalog Number:**

CL488-85334

**Concentration:**

1000 ug/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: 1:50-1:500

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC

**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. Avoid exposure to light. Stable for one year after shipment.

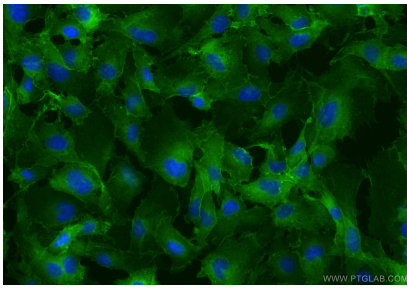
**Storage Buffer:**

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using Coralite® Plus 488 TRPC4 antibody (CL488-85334, Clone: 242444D7 ) at dilution of 1:200.