

For Research Use Only

Anti-Human TRPV4 Rabbit Recombinant Antibody

Catalog Number: 98690-1-RR



Basic Information

Catalog Number:

98690-1-RR

Size:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC117426

GeneID (NCBI):

59341

UNIPROT ID:

Q9HBA0

Full Name:

transient receptor potential cation channel, subfamily V, member 4

Calculated MW:

98 kDa

Purification Method:

Protein A purification

CloneNo.:

251361G8

Recommended Dilutions:

IHC: 1:2000-1:8000

FC: 0.25 µg per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

IHC, FC

Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC: human colon tissue,

FC: THP-1 cells,

Background Information

TRPV4, also called VRL2 and VROAC, belongs to the transient receptor family and TrpV subfamily. It is a non-selective calcium permeant cation channel protein which involved in osmotic sensitivity and mechanosensitivity. Activation by exposure to hypotonicity within the physiological range exhibits an outward rectification. It is activated by low pH, citrate and phorbol esters. Channel activity seems to be regulated by a calmodulin-dependent mechanism with a negative feedback mechanism. Defects in TRPV4 are the cause of brachyolmia type 3 (BRAC3), spondylometaphyseal dysplasia Kozlowski type (SMDK) and metatropic dysplasia (MTD). Multiple transcript variants encoding different isoforms have been found.

Storage

Storage:

Store at 2 - 8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

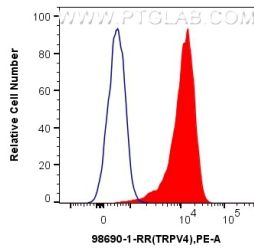
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

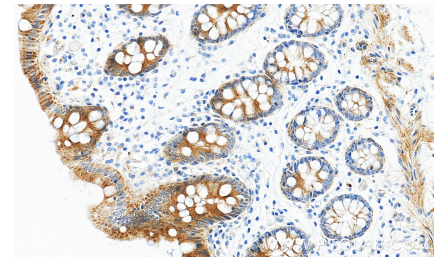
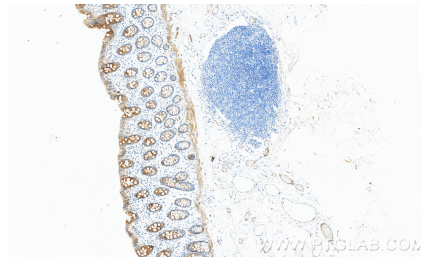
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data

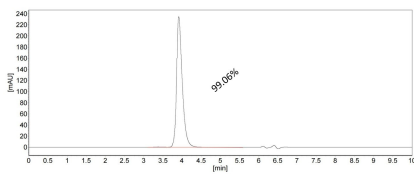


1x10⁶ THP-1 cells were surface stained with 0.25 ug Anti-Human TRPV4 Rabbit RecAb (98690-1-RR, Clone:251361G8) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 98690-1-RR (TRPV4 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 98690-1-RR (TRPV4 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



The purity of Human TRPV4 Recombinant monoclonal antibody (Cat. No. 98688-2-RR) was greater than 95% as determined by SEC-HPLC.