

For Research Use Only

Anti-Human TRPM7 Rabbit Recombinant Antibody

Catalog Number: 98602-3-RR



Basic Information

Catalog Number:

98602-3-RR

Concentration:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_017672

GeneID (NCBI):

54822

UNIPROT ID:

Q96QT4

Full Name:

transient receptor potential cation channel, subfamily M, member 7

Calculated MW:

213 kDa

Purification Method:

Protein A purification

CloneNo.:

251124A5

Recommended Dilutions:

IHC: 1:500-1:2000

FC: 0.25 ug 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 tonsillitis tissue,

FC : HepG2 cells,

Background Information

Transient receptor potential melastatin 7 (TRPM7), along with the closely related TRPM6, are unique channels that have dual operations: cation permeability and kinase activity. In contrast to the limited tissue distribution of TRPM6, TRPM7 is widely expressed among tissues and is therefore implicated in a variety of cellular functions physiologically and pathophysiologically. The discovery of TRPM7's unique structure imparting dual ion channel and kinase activities shed light onto novel and peculiar biological functions, such as Mg²⁺ homeostasis, cellular Ca²⁺ flickering, and even intranuclear transcriptional regulation by a cleaved kinase domain translocated to nuclei.

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:

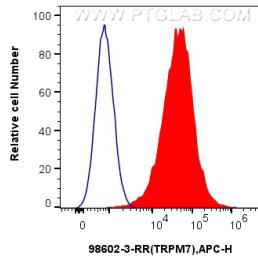
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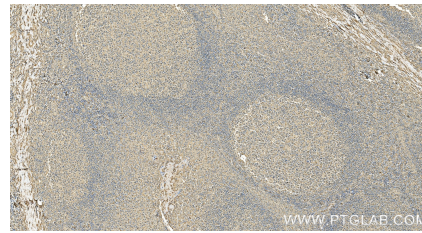
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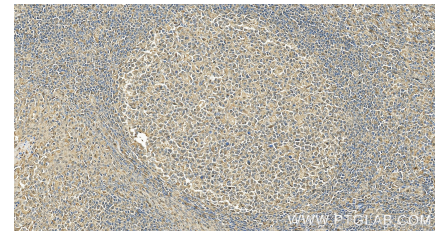
Selected Validation Data



1x10⁶ HepG2 cells were surface stained with 0.25 ug Anti-Human TRPM7 Rabbit RecAb (98602-3-RR, Clone: 251124A5) (red) or Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 98602-3-RR (TRPM7 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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