

For Research Use Only

# Anti-Human TRPM7 Rabbit Recombinant Antibody

Catalog Number: 98602-3-RR



## Basic Information

**Catalog Number:**

98602-3-RR

**Size:**

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 µg per 10<sup>6</sup> 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 Mg<sup>2+</sup> homeostasis, cellular Ca<sup>2+</sup> 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

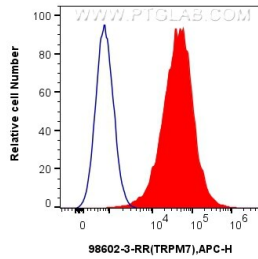
For technical support and original validation data for this product please contact:

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

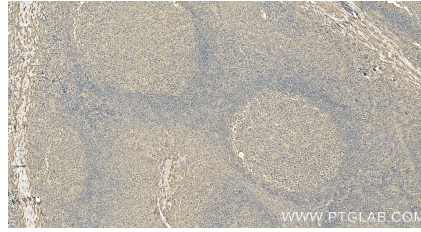
E: proteintech@ptglab.com  
W: ptglab.com

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

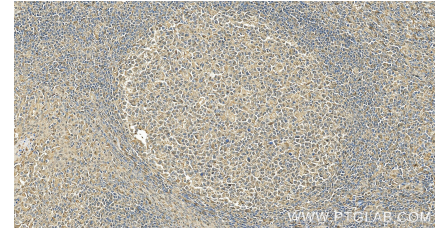
## Selected Validation Data



1x10<sup>6</sup> 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).



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).