

For Research Use Only

TRPM7 Recombinant antibody

Catalog Number: 84324-1-RR



Basic Information

Catalog Number:

84324-1-RR

Size:

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

Observed MW:

220 kDa

Purification Method:

Protein A purification

CloneNo.:

241191G7

Recommended Dilutions:

WB 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HUVEC 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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

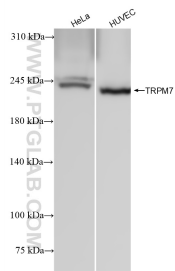
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84324-1-RR (TRPM7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.