

For Research Use Only

TRPM3 Polyclonal antibody

Catalog Number: 12724-1-AP



Basic Information

Catalog Number:

12724-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3421

GenBank Accession Number:

BC022454

GeneID (NCBI):

80036

UNIPROT ID:

Q9HCF6

Full Name:

transient receptor potential cation channel, subfamily M, member 3

Calculated MW:

1732 aa, 197 kDa

Observed MW:

160-210 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, rat brain tissue

Background Information

The transient receptor potential melastatin-3 (TRPM3) channel belongs to the family of transient receptor potential (TRP) cation channels that are expressed in a variety of tissues and cell types, including kidney, brain, dorsal root ganglia, cardiomyocytes and pancreatic beta-cells. TRPM3 channels can be activated by the neurosteroid pregnenolone sulfate, and they are regulated by phosphoinositides, and perhaps by calmodulin. Stimulation of TRPM3 channels is connected with heat sensation by somatosensory neurons, insulin secretion by pancreatic beta-cells, regulation of neurotransmitter release, iris constriction, and tumor promotion. The calculated MW of TRPM3 is 197 kDa, 12724-1-AP can detect a band around 160 kDa, which likely corresponds to different splice variant. (PMID: 28720517,21198543)

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:

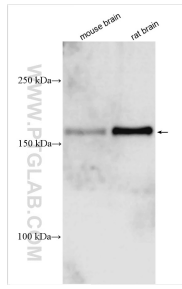
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12724-1-AP (TRPM3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.