

For Research Use Only

TRPM4 Polyclonal antibody

Catalog Number: 21985-1-AP **2 Publications**



Basic Information

Catalog Number:

21985-1-AP

Size:

1000 μ g/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17132

GenBank Accession Number:

BC132727

GeneID (NCBI):

54795

UNIPROT ID:

Q8TD43

Full Name:

transient receptor potential cation channel, subfamily M, member 4

Calculated MW:

1214 aa, 134 kDa

Observed MW:

130-150 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB : 37°C incubated HEK-293 cells,

IHC : mouse brain tissue,

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

Background Information

TRPM4 is a Calcium-activated nonselective cation channel. It is activated by increase in intracellular Ca^{2+} , mediates transport of monovalent cations ($Na^{+} > K^{+} > Cs^{+} > Li^{+}$), leading to depolarize the membrane. It thereby plays a central role in cardiomyocytes, neurons from entorhinal cortex, dorsal root and vomeronasal neurons, endocrine pancreas cells, kidney epithelial cells, cochlea hair cells etc. TRPM4 participates in T-cell activation by modulating Ca^{2+} oscillations after T lymphocyte activation, which is required for NFAT-dependent IL2 production. It's also involved in myogenic constriction of cerebral arteries.

Notable Publications

Author	Pubmed ID	Journal	Application
Fengxiang Ye	38103473	Tissue Cell	WB
Xiaoshi Ma	38022698	Comput Struct Biotechnol J	IF

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:

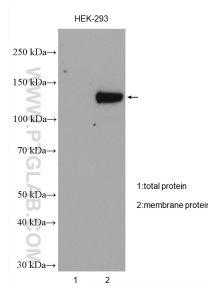
T: 4006900926

E: Proteintech-CN@ptglab.com

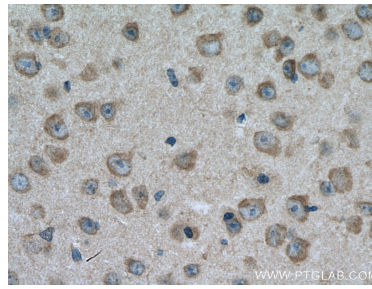
W: ptgcn.com

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Selected Validation Data



HEK-293 cells(total protein heated at 100°C, membrane protein incubated at 37°C) were subjected to SDS PAGE followed by western blot with 21985-1-AP (TRPM4 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21985-1-AP (TRPM4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).