For Research Use Only

TRPM4 Polyclonal antibody

Catalog Number: 21985-1-AP 2 Publications



Basic Information

Catalog Number: 21985-1-AP

GenBank Accession Number:

Antigen affinity purification

Size:

BC132727 GeneID (NCBI):

Recommended Dilutions:

Purification Method:

150ul, Concentration: 700 ug/ml by

WB 1:500-1:3000

IHC 1:50-1:500

Nanodrop and 380 ug/ml by Bradford $\,$ UNIPROT ID: method using BSA as the standard;

Q8TD43

Full Name:

Source: Rabbit Isotype:

transient receptor potential cation

channel, subfamily M, member 4

Calculated MW:

Immunogen Catalog Number: AG17132

1214 aa. 134 kDa

Observed MW:

130~150 kDa

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

Species Specificity:

human, mouse

Cited Species:

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:

WB: 37°C incubated HEK-293 cells,

IHC: mouse brain tissue,

Background Information

TRPM4 is a Calcium-activated nonselective cation channel. It is activated by increase in intracellular Ca2+, mediates transport of monovalent cations (Na+ > K+ > Cs+ > Li+), leading to depolarize the membrane. It thereby plays a central role in cadiomyocytes, 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 $modulating \ Ca2 + oscillations \ after \ T \ lymphocyte \ activation, which \ is \ required \ for \ NFAT-dependent \ IL2 \ production.$ 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

*** 20ul sizes contain 0.1% BSA

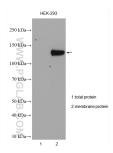
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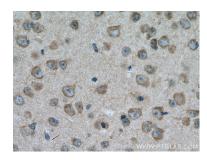
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Selected Validation Data



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 paraffinembedded 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).