

For Research Use Only

TRPM4 Recombinant monoclonal antibody

Catalog Number: 87085-1-RR



Basic Information

Catalog Number: 87085-1-RR	GenBank Accession Number: BC132727	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 54795	CloneNo.: 250968D6
Source: Rabbit	UNIPROT ID: Q8TD43	Recommended Dilutions: WB: 1:500-1:2000 IHC: 1:500-1:2000
Isotype: IgG	Full Name: transient receptor potential cation channel, subfamily M, member 4	
	Calculated MW: 1214 aa, 134 kDa	
	Observed MW: 130-150 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

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:

WB: HEK-293 cells,

IHC: human colon 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 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 Ca²⁺ oscillations after T lymphocyte activation, which is required for NFAT-dependent IL2 production. It's also involved in myogenic constriction of cerebral arteries.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

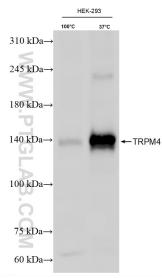
For technical support and original validation data for this product please contact:

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

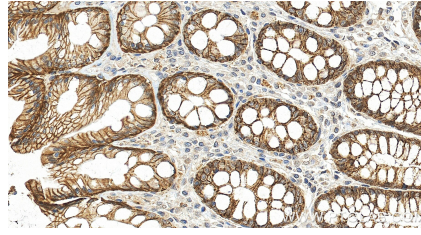
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



HEK-293 cell lysates (100°C treated and 37°C) were subjected to SDS PAGE followed by western blot with 87085-1-RR (TRPM4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 87085-1-RR (TRPM4 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).