

For Research Use Only

# TRPM4 Recombinant monoclonal antibody

Catalog Number: 87085-1-RR



## Basic Information

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

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, IHC : human colon tissue,
<b>Species Specificity:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

TRPM4 is a Calcium-activated nonselective cation channel. It is activated by increase in intracellular Ca<sup>2+</sup>, mediates transport of monovalent cations (Na<sup>+</sup> > K<sup>+</sup> > Cs<sup>+</sup> > Li<sup>+</sup>), 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<sup>2+</sup> 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

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

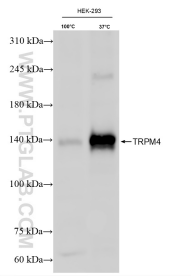
T: 4006900926

E: Proteintech-CN@ptglab.com

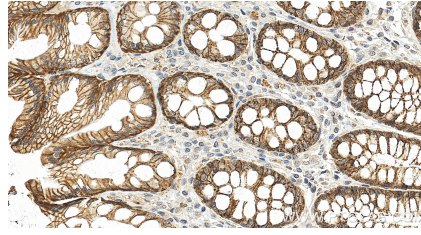
W: ptgcn.com

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## Selected Validation Data



HEK-293 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).