

Product datasheet for **CF500381**

TRPM4 Mouse Monoclonal Antibody [Clone ID: OTI10H5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10H5
Applications:	IHC, WB
Recommended Dilution:	WB 1:5000~10000, IHC 1:50
Reactivity:	Human, Dog, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TRPM4 (NP_060106) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	134.3 kDa
Gene Name:	transient receptor potential cation channel subfamily M member 4
Database Link:	NP_060106 Entrez Gene 484385 Dog Entrez Gene 719120 Monkey Entrez Gene 54795 Human Q8TD43



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Background:

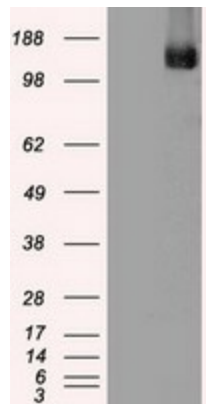
Calcium-activated non selective (CAN) cation channel that mediates membrane depolarization. While it is activated by increase in intracellular Ca^{2+} , it is impermeable to it. Mediates transport of monovalent cations (Na^{+} > K^{+} > Cs^{+} > Li^{+}), leading to depolarize the membrane. It thereby 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. Participates in T-cell activation by modulating Ca^{2+} oscillations after T lymphocyte activation, which is required for NFAT-dependent IL2 production. Involved in myogenic constriction of cerebral arteries. Controls insulin secretion in pancreatic beta-cells. May also be involved in pacemaking or could cause irregular electrical activity under conditions of Ca^{2+} overload.

Synonyms:

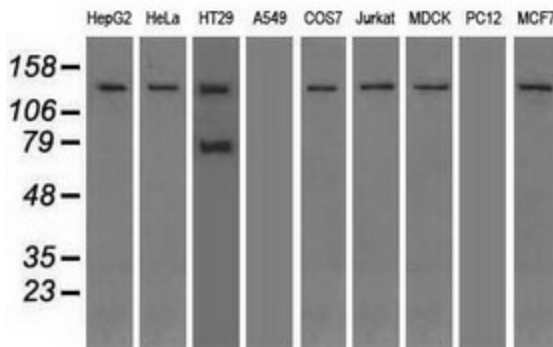
hTRPM4; LTrpC4; PFHB1B; TRPM4B

Protein Families:

Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRPM4 (Cat# [RC216888], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRPM4 (Cat# [TA500381]). Positive lysates [LY413636] (100ug) and [LC413636] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-TRPM4 monoclonal antibody.

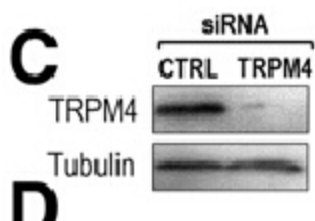
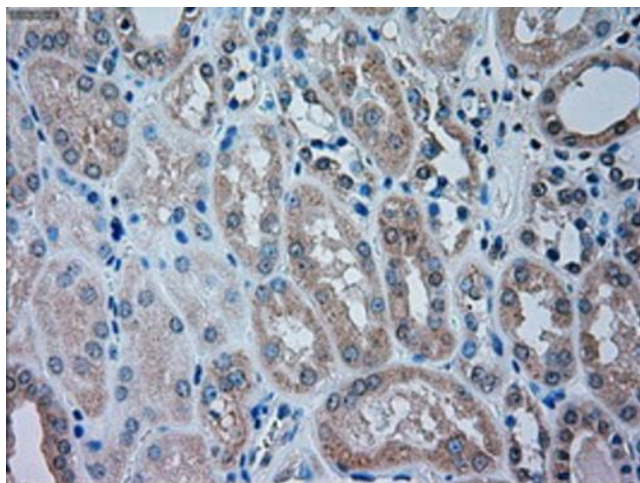
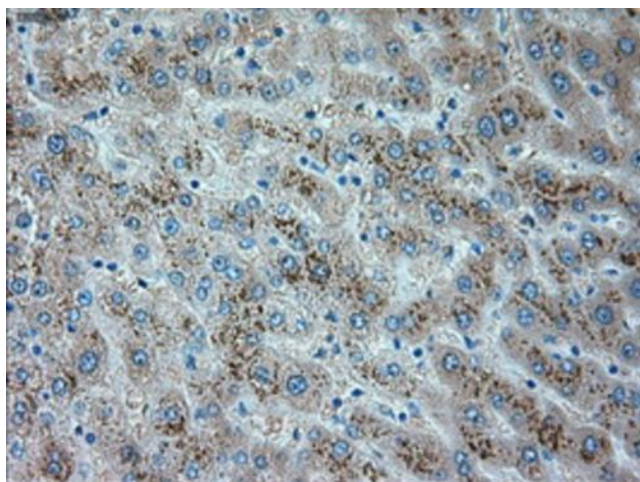


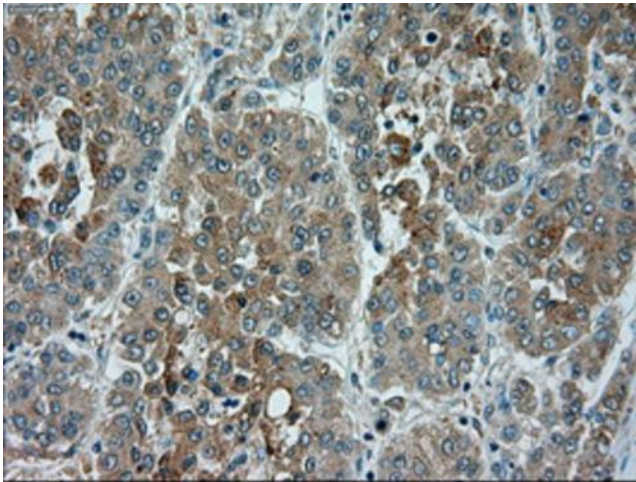
Figure from citation: Western Blot of TRPM4 protein level by using anti-TRPM4 antibody in human endothelial cells. [View Citation](#)



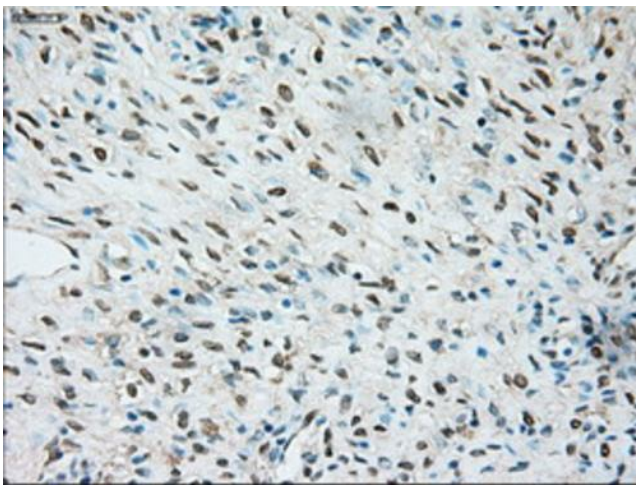
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-TRPM4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



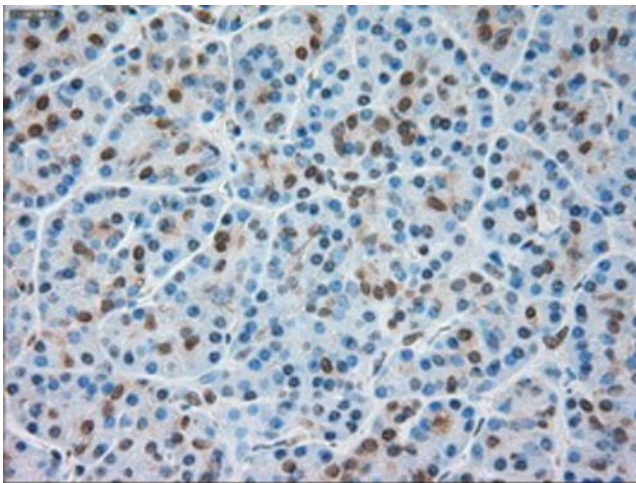
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-TRPM4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-TRPM4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-TRPM4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-TRPM4 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.