

Mouse TRPM4 Monoclonal Antibody | anti-TRPM4 antibody

TRPM4 antibody

CATALOG #	HOST	APPLICATIONS
AAA106931	Mouse	Western Blot, Immunohistochemistry

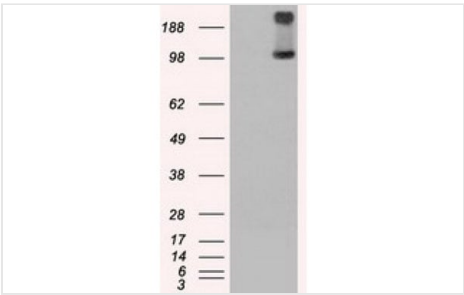
PRODUCT SYNONYMS

TRPM4; Monoclonal Antibody; TRPM4 antibody; Monoclonal TRPM4; Anti-TRPM4; Transient Receptor Potential Cation Channel Subfamily M Member 4; FLJ20041; TRPM4B; TRPM 4; TRPM-4; anti-TRPM4 antibody

PRODUCT SPECIFICATIONS

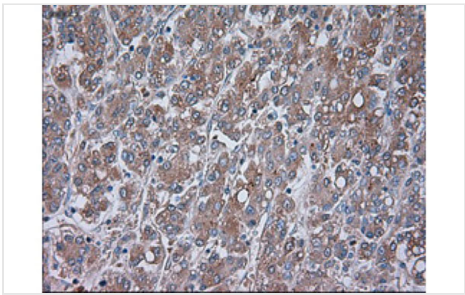
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	14C3
Purity/Purification	TRPM4 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	1069
Applicable Applications for anti-TRPM4 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Biological Significance	TRPM4 is a 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. TRPM4 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.
Cross-Reactivity	Human
Immunogen	TRPM4 antibody was raised in mouse using a protein expressed in 293T cell transfected with human TRPM4 expression vector as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant TRPM4 protein (Right) or empty vector (Left) detected with TRPM4 antibody



IHC (Immunohistochemistry)

Immunohistochemical analysis of TRPM4 protein in paraffin embedded Carcinoma of Human liver tissue using TRPM4 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-TRPM4 antibody	Mouse monoclonal TRPM4 antibody
Product Categories/Family for anti-TRPM4 antibody	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	304766677
NCBI GeneID	54795
NCBI Accession #	NP_001182156.1
NCBI GenBank Nucleotide #	NM_001195227.1
UniProt Accession #	Q8TD43; Q7Z5D9; Q96L84; Q9NXV1; A2RU25
Molecular Weight	118,630 Da
NCBI Official Full Name	transient receptor potential cation channel subfamily M member 4 isoform 2
NCBI Official Synonym Full Names	transient receptor potential cation channel, subfamily M, member 4
NCBI Official Symbol	TRPM4
NCBI Official Synonym Symbols	PFHB1B; TRPM4B
NCBI Protein Information	transient receptor potential cation channel subfamily M member 4
UniProt Protein Name	Transient receptor potential cation channel subfamily M member 4
UniProt Gene Name	TRPM4
UniProt Synonym Gene Names	LTRPC4; hTRPM4; LTrpC-4; LTrpC4
UniProt Entry Name	TRPM4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.