

Product datasheet for **TA328670**

TRPM4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide EKEQSWIPKIFKK(C), corresponding to amino acid residues 5-17 of human TRPM4. Intracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	transient receptor potential cation channel subfamily M member 4
Database Link:	NP_060106 Entrez Gene 68667 Mouse Entrez Gene 171143 Rat Entrez Gene 54795 Human Q8TD43



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Background:

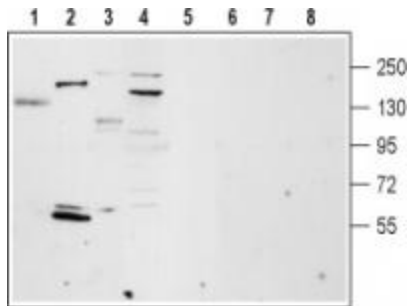
The mammalian melastatin-related transient receptor potential (TRPM) is a subfamily of the TRP family. The family was named after the first discovered member, melastatin (TRPM1) whose gene was identified in metastatic and benign melanomas. The TRPM family consists of eight members designated as TRPM1-8 that can be further divided into four pairs: TRPM1 and TRPM3; TRPM2 and TRPM8; TRPM4 and TRPM5; and TRPM6 and TRPM7. The TRPM proteins share structural homology with other members of the TRP superfamily channels; six putative transmembrane domains, and cytoplasmic N- and C-termini. However, due to their long N- and C-termini they are also named the long TRP channel family. TRPM4 and TRPM5 are the only TRP channels that are permeable to monovalent cations but not to Ca²⁺. TRPM4 is expressed as at least two alternative spliced isoforms, TRPM4a and TRPM4b which consist of shorter and longer N-terminal regions, respectively. TRPM4a displays little activity, TRPM4b and TRPM5 appear to be directly activated by an increase in intracellular Ca²⁺ concentration. TRPM4 is expressed at relatively high levels in cardiac tissues.

Synonyms:

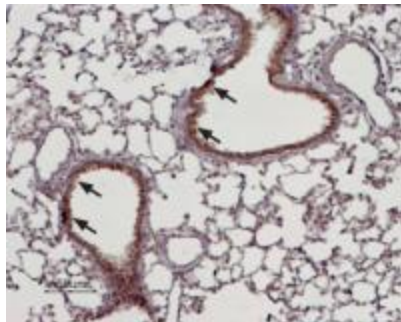
hTRPM4; LTrpC4; PFHB1B; TRPM4B

Protein Families:

Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Product images:


Western blot analysis of rat lung (lanes 1 and 5), rat heart membrane (lanes 2 and 6), mouse brain membrane (lanes 3 and 7) and ms1 cells lysate (lanes 4 and 8): 1-4. Anti-TRPM4 antibody, (1:200). 5-8. Anti-TRPM4 antibody, preincubated with the control peptide antigen.



Expression of TRPM4 in rat lung. Immunohistochemical staining of rat lung paraffin embedded sections using Anti-TRPM4 antibody, (1:100). TRPM4 is expressed in the respiratory epithelium of the bronchioles (arrows). Hematoxylin is used as the counterstain.