

Product datasheet

Anti-TRPM4 antibody [10H5] ab123936

7 图像

概述

产品名称	Anti-TRPM4抗体[10H5]
描述	小鼠单克隆抗体[10H5] to TRPM4
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Dog, Human, Monkey
免疫原	Recombinant full length Human TRPM4 produced in HEK293T cells (NP_060106).
阳性对照	HEK293T cells transfected with pCMV6-ENTRY TRPM4 cDNA; HepG2, HeLa, HT29, COS7, Jurkat, MDCK, PC12, MCF7 cell extracts; Human Kidney, Liver, Liver carcinoma, Ovary and Pancreas tissues.
常规说明	Dilute in PBS (pH7.3) before use.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 50% Glycerol, 1% BSA
纯度	Protein G purified
纯化说明	Purified from Mouse ascites fluid by affinity chromatography.
克隆	单克隆
克隆编号	10H5
同种型	IgG1

应用

Our [Abpromise guarantee](#) covers the use of **ab123936** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/5000 - 1/10000. Predicted molecular weight: 134 kDa.
IHC-P		1/50.

靶标

功能 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. Affects T-helper 1 (Th1) and T-helper 2 (Th2) cell motility and cytokine production through differential regulation of calcium signaling and NFATC1 localization. Enhances cell proliferation through up-regulation of the beta-catenin signaling pathway.

组织特异性 Widely expressed with a high expression in intestine and prostate. In brain, it is both expressed in whole cerebral arteries and isolated vascular smooth muscle cells. Prominently expressed in Purkinje fibers. Expressed at higher levels in T-helper 2 (Th2) cells as compared to T-helper 1 (Th1) cells.

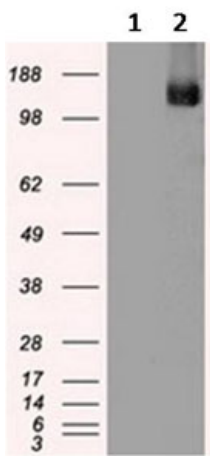
疾病相关 Defects in TRPM4 are the cause of progressive familial heart block type 1B (PFHB1B) [MIM:604559]. It is a cardiac bundle branch disorder characterized by progressive alteration of cardiac conduction through the His-Purkinje system, with a pattern of a right bundle-branch block and/or left anterior hemiblock occurring individually or together. It leads to complete atrio-ventricular block causing syncope and sudden death.

序列相似性 Belongs to the transient receptor (TC 1.A.4) family. LTrpC subfamily. TRPM4 sub-subfamily.

翻译后修饰 Phosphorylation by PKC leads to increase the sensitivity to Ca(2+). Sumoylated. Desumoylated by SENP1.

细胞定位 Endoplasmic reticulum. Golgi apparatus and Cell membrane. Endoplasmic reticulum. Golgi apparatus.

图片



Western blot - Anti-TRPM4 antibody [10H5]
(ab123936)

All lanes : Anti-TRPM4 antibody [10H5]
(ab123936) at 1/5000 dilution

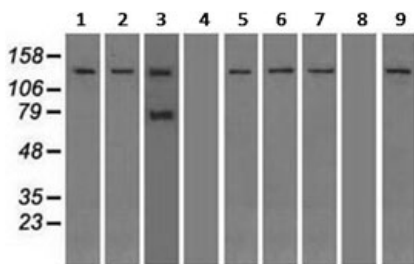
Lane 1 : HEK293T cells transfected with
pCMV6-ENTRY control cDNA

Lane 2 : HEK293T cells transfected with
pCMV6-ENTRY TRPM4 cDNA

Lysates/proteins at 5 µg per lane.

Predicted band size : 134 kDa

HEK293T cell lysates were generated from
transient transfection of the cDNA clone
(RC216888)



Western blot - Anti-TRPM4 antibody [10H5]
(ab123936)

All lanes : Anti-TRPM4 antibody [10H5]
(ab123936) at 1/5000 dilution

Lane 1 : HepG2 cell extract

Lane 2 : HeLa cell extract

Lane 3 : HT29 cell extract

Lane 4 : A549 cell extract

Lane 5 : COS7 cell extract

Lane 6 : Jurkat cell extract

Lane 7 : MDCK cell extract

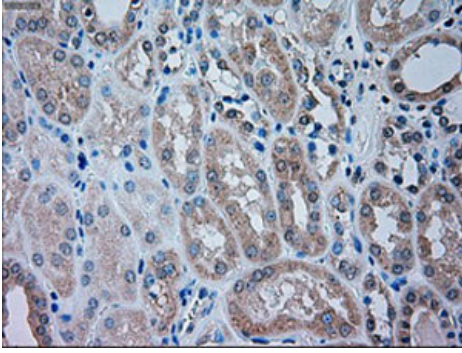
Lane 8 : PC12 cell extract

Lane 9 : MCF7 cell extract

Lysates/proteins at 35 µg per lane.

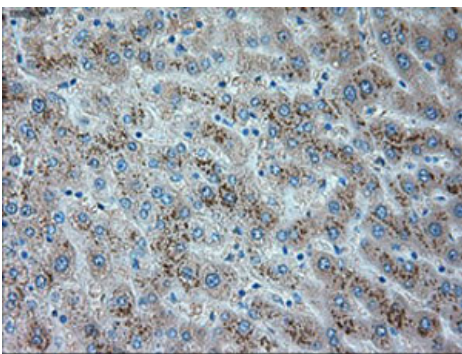
Predicted band size : 134 kDa

HEK293T cell lysates were generated from
transient transfection of the cDNA clone
(RC216888)



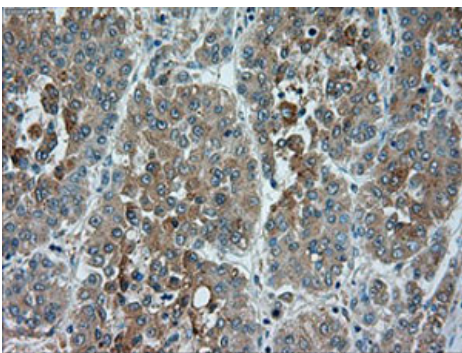
ab123936 at 1/50 dilution staining TRPM4 in Paraffin-embedded Human Kidney tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRPM4 antibody [10H5] (ab123936)



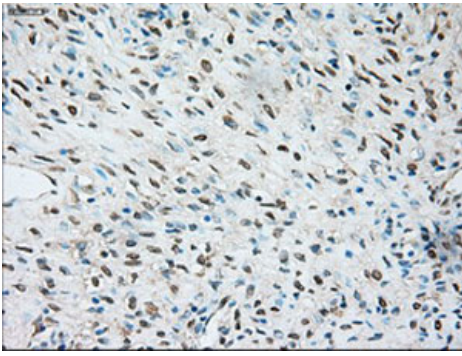
ab123936 at 1/50 dilution staining TRPM4 in Paraffin-embedded Human liver tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRPM4 antibody [10H5] (ab123936)



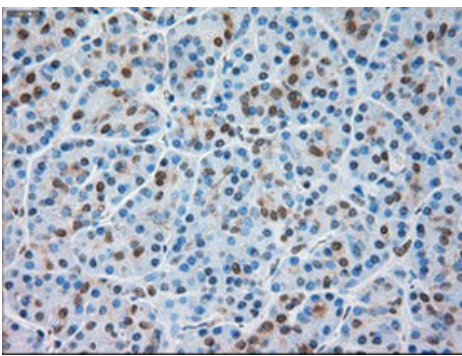
ab123936 at 1/50 dilution staining TRPM4 in Paraffin-embedded Human liver carcinoma tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRPM4 antibody [10H5] (ab123936)



ab123936 at 1/50 dilution staining TRPM4 in Paraffin-embedded Human Ovary tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRPM4 antibody [10H5] (ab123936)



ab123936 at 1/50 dilution staining TRPM4 in Paraffin-embedded Human Pancreas tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRPM4 antibody [10H5] (ab123936)

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