

Datasheet for ABIN7172867
anti-TRPM4 antibody (AA 1-240)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	TRPM4
Binding Specificity:	AA 1-240
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPM4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Transient receptor potential cation channel subfamily M member 4 protein (1-240AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	TRPM4
Alternative Name:	TRPM4 (TRPM4 Products)
Background:	Background: Calcium-activated non selective (CAN) cation channel that mediates membrane

Target Details

depolarization. While it is activated by increase in intracellular $\text{Ca}(2+)$, it is impermeable to it. Mediates transport of monovalent cations ($\text{Na}(+) > \text{K}(+) > \text{Cs}(+) > \text{Li}(+)$), 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 $\text{Ca}(2+)$ 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 $\text{Ca}(2+)$ 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. Aliases: 1110030C19Rik antibody, AW047689 antibody, Calcium-activated non-selective cation channel 1 antibody, FLJ20041 antibody, hTRPM4 antibody, Long transient receptor potential channel 4 antibody, LTrpC-4 antibody, LTrpC4 antibody, Melastatin 4 antibody, Melastatin like 2 protein antibody, Melastatin-4 antibody, Melastatin-like 2 antibody, Mls2s antibody, PFHB1B antibody, Transient receptor potential cation channel subfamily M member 4 antibody, Transient receptor potential cation channel, subfamily M, member 4 antibody, Trpm4 antibody, TRPM4_HUMAN antibody, TRPM4B antibody

UniProt:	Q8TD43
Pathways:	Regulation of Leukocyte Mediated Immunity , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200,
Restrictions:	For Research Use only

Handling

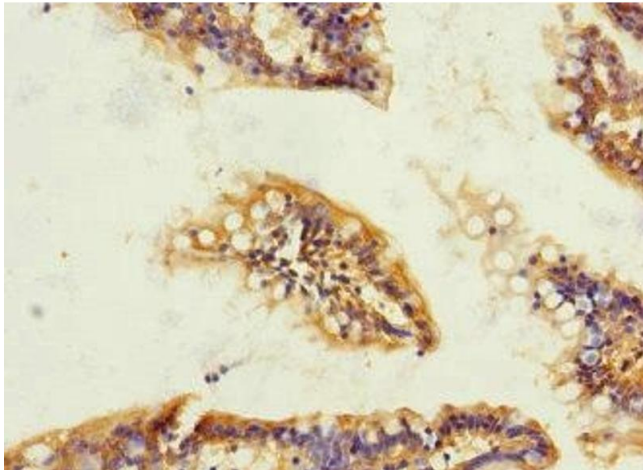
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C, -80 °C

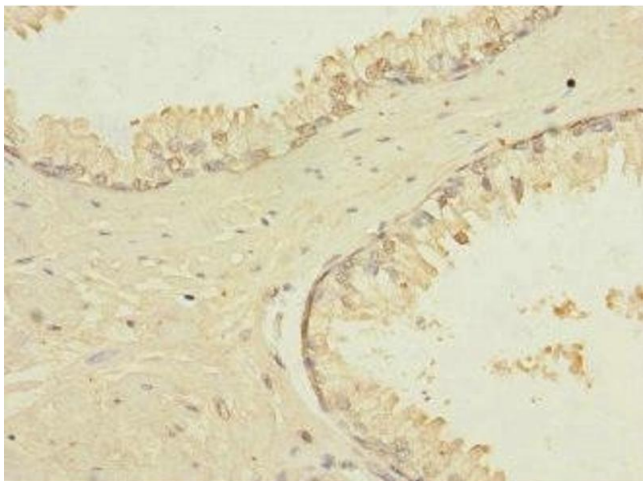
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human small intestine tissue using ABIN7172867 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human prostate cancer using ABIN7172867 at dilution of 1:100