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Datasheet for ABIN1400551  
**anti-TRPM4 antibody (AA 800-850) (Biotin)**

## Overview

Quantity:	100 µL
Target:	TRPM4
Binding Specificity:	AA 800-850
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPM4 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human TRPM4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

## Target Details

Target:	TRPM4
Alternative Name:	TRPM4 ( <a href="#">TRPM4 Products</a> )
Background:	Synonyms: PFHB1B, TRPM4B, Transient receptor potential cation channel subfamily M member 4, hTRPM4, Calcium-activated non-selective cation channel 1, Long transient receptor

## Target Details

potential channel 4, LTrpC-4, LTrpC4, Melastatin-4, TRPM4

Background: Calcium-activated non selective (CAN) cation channel that mediates membrane 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.

Gene ID:	54795
UniProt:	<a href="#">Q8TD43</a>
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C

Handling

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Storage Comment:                      Store at -20°C for 12 months.

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Expiry Date:                              12 months