

Datasheet for ABIN2776221  
**anti-TRPM4 antibody (N-Term)**

8 Images

1 Publication

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## Overview

Quantity:	100 µL
Target:	TRPM4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPM4 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human TRPM4
Sequence:	ELLTVYSSD GSEEFETIVL KALVKACGSS EASAYLDELRLAVAWNRVDI
Predicted Reactivity:	Cow: 79%, Dog: 86%, Guinea Pig: 93%, Horse: 86%, Human: 100%, Mouse: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against TRPM4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	TRPM4
Alternative Name:	TRPM4 ( <a href="#">TRPM4 Products</a> )

## Target Details

Background:	<p>TRPM4 is a calcium-activated non selective (CAN) cation channel that mediates membrane depolarization. While it is activated by increase in intracellular Ca<sup>2+</sup>, it is impermeable to it. TRPM4 mediates transport of monovalent cations (Na<sup>+</sup> &gt; K<sup>+</sup> &gt; Cs<sup>+</sup> &gt; Li<sup>+</sup>), 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<sup>2+</sup> oscillations after T lymphocyte activation, which is required for NFAT-dependent IL2 production. TRPM4 is involved in myogenic constriction of cerebral arteries. It controls insulin secretion in pancreatic beta-cells. TRPM4 may also be involved in pacemaking or could cause irregular electrical activity under conditions of Ca<sup>2+</sup> overload.</p> <p>Alias Symbols: FLJ20041, TRPM4B, PFHB1B</p> <p>Protein Interaction Partner: FUS, UBC, TRPM4,</p> <p>Protein Size: 1214</p>
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Molecular Weight:	134 kDa
Gene ID:	54795
NCBI Accession:	<a href="#">NM_017636</a> , <a href="#">NP_060106</a>
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:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1214 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

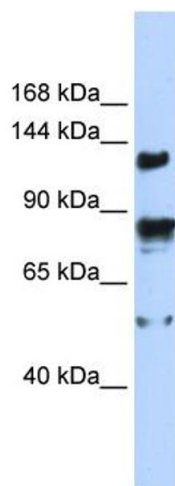
## Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

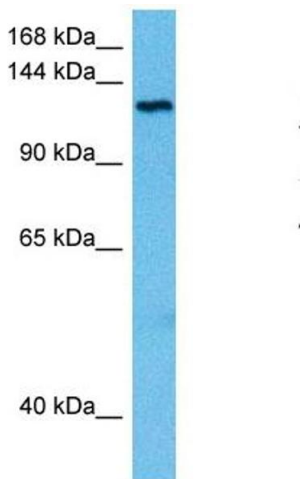
Product cited in:	Sakamaki, Ishii, Sakata, Takemoto, Takagi, Takeuchi, Morishita, Takahashi, Nozawa, Shinoda, Chiba, Sugimoto, Saito, Tamate, Satou, Jung, Matsuoka, Koyamada, Sawasaki, Nagai, Ueno: "Dysregulation of a potassium channel, THIK-1, targeted by caspase-8 accelerates cell shrinkage." in: <b>Biochimica et biophysica acta</b> , Vol. 1863, Issue 11, pp. 2766-2783, (2016) ( <a href="#">PubMed</a> ).
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## Images



### Western Blotting

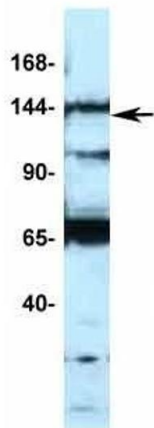
**Image 1.** WB Suggested Anti-TRPM4 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 293T cell lysate



Western Blotting

**Image 2.** Host: Rat Target Name: TRPM4 Sample Tissue: Rat Brain Antibody Dilution: 1ug/ml

TRPM4



Western Blotting

**Image 3.** Host: Rabbit Target Name: TRPM4 Sample Type: Jurkat Antibody Dilution: 1.0ug/ml

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2776221.