

Datasheet for ABIN918756

**anti-TRPV4 antibody (AA 301-400) (Biotin)**[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	TRPV4
Binding Specificity:	AA 301-400
Reactivity:	Human, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPV4 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human TRPV4
Isotype:	IgG
Cross-Reactivity:	Cow, Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Pig,Chicken
Purification:	Purified by Protein A.

## Target Details

Target:	TRPV4
Alternative Name:	TRP12 ( <a href="#">TRPV4 Products</a> )
Background:	Synonyms: SMAL, VRL2, BCYM3, CMT2C, SPSMA, TRP12, VROAC, HMSN2C, OTRPC4, SSQTL1,

## Target Details

Transient receptor potential cation channel subfamily V member 4, TrpV4, Osm-9-like TRP channel 4, Transient receptor potential protein 12, Vanilloid receptor-like channel 2, Vanilloid receptor-like protein 2, VRL-2, Vanilloid receptor-related osmotically-activated channel, VR-OAC

Background: Non-selective calcium permeant cation channel probably involved in osmotic sensitivity and mechanosensitivity. Activation by exposure to hypotonicity within the physiological range exhibits an outward rectification. Also activated by low pH , citrate and phorbol esters. Increase of intracellular Ca(2+) potentiates currents. Channel activity seems to be regulated by a calmodulin-dependent mechanism with a negative feedback mechanism. Promotes cell-cell junction formation in skin keratinocytes and plays an important role in the formation and/or maintenance of functional intercellular barriers. Acts as a regulator of intracellular Ca(2+) in synoviocytes. Plays an obligatory role as a molecular component in the nonselective cation channel activation induced by 4-alpha-phorbol 12,13-didecanoate and hypotonic stimulation in synoviocytes and also regulates production of IL-8.

Gene ID:	59341
UniProt:	<a href="#">Q9HBA0</a>
Pathways:	<a href="#">Hormone Transport, Cell-Cell Junction Organization</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
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