

Datasheet for ABIN873245
anti-TRPV4 antibody (AA 301-400)[Go to Product page](#)

1 Image

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Overview

Quantity:	100 µL
Target:	TRPV4
Binding Specificity:	AA 301-400
Reactivity:	Human, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPV4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), 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 (TRPV4 Products)

Target Details

Background:	<p>Synonyms: SMAL, VRL2, BCYM3, CMT2C, SPSMA, TRP12, VROAC, HMSN2C, OTRPC4, SSQTL1, 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</p> <p>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.</p>
Gene ID:	59341
UniProt:	Q9HBA0
Pathways:	Hormone Transport , Cell-Cell Junction Organization

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % 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.

Handling

Storage: 4 °C, -20 °C

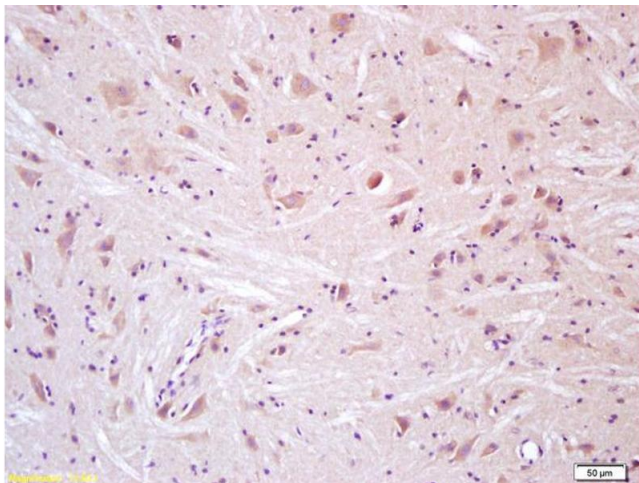
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Sakakibara, Sakakibara, Kusumoto, Takeda, Hasegawa, Akashi, Minamikawa, Hashikawa, Terashi, Komori et al.: "Upregulated Expression of Transient Receptor Potential Cation Channel Subfamily V Receptors in Mucosae of Patients with Oral Squamous Cell Carcinoma and Patients with a History of Alcohol Consumption ..." in: **PLoS ONE**, Vol. 12, Issue 1, pp. e0169723, (2017) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat spinal cord tissue labeled with Rabbit Anti TRPV4/TRP12 Polyclonal Antibody, Unconjugated (ABIN873245) at 1:200 followed by conjugation to the secondary antibody and DAB staining