



Datasheet for ABIN7172887
anti-TRPV4 antibody (AA 1-230)



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2 Images

Overview

Quantity:	100 µL
Target:	TRPV4
Binding Specificity:	AA 1-230
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPV4 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Transient receptor potential cation channel subfamily V member 4 protein (1-230AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	TRPV4
Alternative Name:	TRPV4 (TRPV4 Products)
Background:	Background: Non-selective calcium permeant cation channel probably involved in osmotic

Target Details

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 Ca²⁺ 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 Ca²⁺ in synoviocytes. Plays an obligatory role as a molecular component in the nonselective cation channel activation induced by 4- α -phorbol 12,13-didecanoate and hypotonic stimulation in synoviocytes and also regulates production of IL-8.

Aliases: BCYM3 antibody, CMT2C antibody, HMSN2C antibody, osm 9 like TRP channel 4 antibody, Osm-9-like TRP channel 4 antibody, OSM9 like transient receptor potential channel 4 antibody, Osmosensitive transient receptor potential channel 4 antibody, OTRPC 4 antibody, OTRPC4 antibody, SMAL antibody, SPSMA antibody, SSQTL1 antibody, Transient receptor potential cation channel subfamily V member 4 antibody, Transient receptor potential protein 12 antibody, TRP 12 antibody, TRP12 antibody, TRPV 4 antibody, TrpV4 antibody, TRPV4_HUMAN antibody, Vanilloid receptor like channel 2 antibody, Vanilloid receptor like protein 2 antibody, Vanilloid receptor related osmotically activated channel antibody, Vanilloid receptor-like channel 2 antibody, Vanilloid receptor-like protein 2 antibody, Vanilloid receptor-related osmotically-activated channel antibody, VR 4 antibody, VR OAC antibody, VR-OAC antibody, VR4 antibody, VRL 2 antibody, VRL-2 antibody, VRL2 antibody, VROAC antibody

UniProt: [Q9HBA0](#)

Pathways: [Hormone Transport, Cell-Cell Junction Organization](#)

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

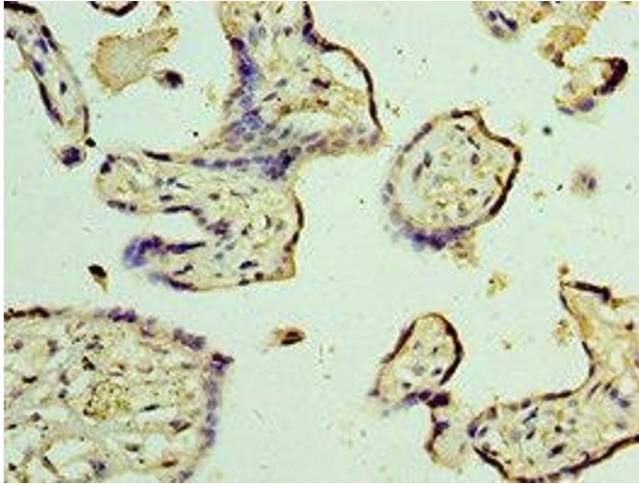
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C,-80 °C

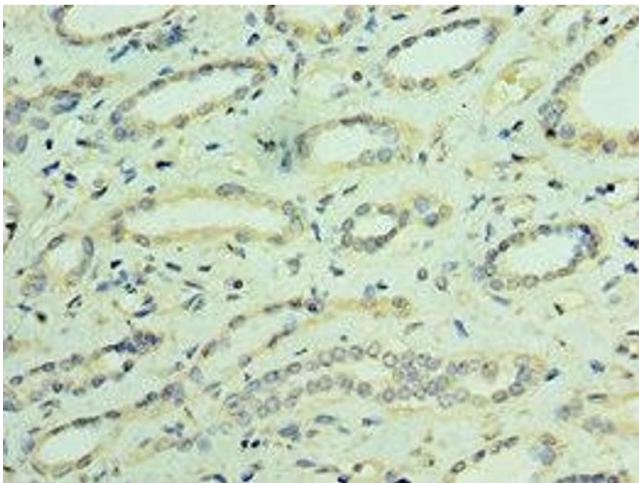
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta tissue using ABIN7172887 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7172887 at dilution of 1:100