

anti- TRPV4 antibody

Product Information

Catalog No.:	FNab09028
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Non-selective calcium permeant cation channel involved in osmotic sensitivity and mechanosensitivity. Activation by exposure to hypotonicity within the physiological range exhibits an outward rectification(PubMed:18826956, PubMed:18695040). Also activated by heat, low pH, citrate and phorbol esters(PubMed:18826956, PubMed:18695040). Increase of intracellular Ca(2+) potentiates currents. Channel activity seems to be regulated by a calmodulin-dependent mechanism with a negative feedback mechanism(PubMed:12724311, PubMed:18826956). Promotes cell-cell junction formation in skin keratinocytes and plays an important role in the formation and/or maintenance of functional intercellular barriers(By similarity). Acts as a regulator of intracellular Ca(2+) in synoviocytes(PubMed:19759329). 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(PubMed:19759329). Together with PKD2, forms mechano- and thermosensitive channels in cilium(PubMed:18695040). Negatively regulates expression of PPARGC1A, UCP1, oxidative metabolism and respiration in adipocytes(By similarity). Regulates expression of chemokines and cytokines related to proinflammatory pathway in adipocytes(By similarity). Together with AQP5, controls regulatory volume decrease in salivary epithelial cells(By similarity).

Immunogen information

1

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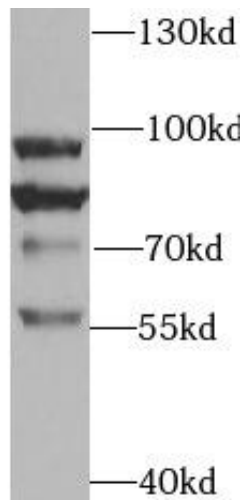
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Immunogen: transient receptor potential cation channel, subfamily V, member 4
Synonyms: Osm 9 like TRP channel 4, OTRPC4, TRP12, TRPV4, VR OAC, VRL 2, VRL2, VROAC
Observed MW: 98 kDa
Uniprot ID : Q9HBA0

Application

Reactivity: Human, Mouse
Tested Application: ELISA, WB
Recommended dilution: WB: 1:500-1:2000

Image:



SH-SY5Y cells were subjected to SDS PAGE followed by western blot with FNab09028(TRPV4 antibody) at dilution of 1:800

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