

Product datasheet

Anti-TRPV4 antibody ab94868

★★★★☆ 1 Abreviews 3 References 画像数 3

製品の概要

製品名	Anti-TRPV4 antibody
製品の詳細	Rabbit polyclonal to TRPV4
由来種	Rabbit
アプリケーション	適用あり: IHC-P, WB
種交差性	交差種: Human, Pig 交差が予測される動物種: Mouse, Rat, Rabbit, Chicken, Guinea pig, Cow, Cat, Dog
免疫原	Synthetic peptide corresponding to a region within internal amino acids 720-769 (VDEVNWSHWNLGIINEDPGKNETYQYYGFSHTVGRLRRDRWSSVPRV) of Human TRPV4 isoform 2 (NP_671737) Run BLAST with Run BLAST with
ポジティブ・コントロール	HT1080 cell lysate

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab94868** in the following tested applications.

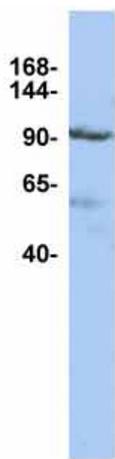
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリ ケーショ ン	Abreviews	特記事項
IHC-P		1/500.
WB	★★★★☆	Use a concentration of 1 µg/ml. Predicted molecular weight: 91 kDa. Can be blocked with TRPV4 peptide (ab230486) . Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

ターゲット情報

機能	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.
組織特異性	Found in the synoviocytes from patients with (RA) and without (CTR) rheumatoid arthritis (at protein level).
関連疾患	Brachyolmia 3 Spondylometaphyseal dysplasia Kozlowski type Metatropic dysplasia Distal spinal muscular atrophy, congenital non-progressive Charcot-Marie-Tooth disease 2C Scapuloperoneal spinal muscular atrophy Spondyloepiphyseal dysplasia Maroteaux type Parastremmatic dwarfism Digital arthropathy-brachydactyly, familial
配列類似性	Belongs to the transient receptor (TC 1.A.4) family. TrpV subfamily. TRPV4 sub-subfamily. Contains 3 ANK repeats.
翻訳後修飾	Phosphorylation results in enhancement of its channel function.
細胞内局在	Cell membrane and Cell membrane. Cell junction > adherens junction. Assembly of the putative homotetramer occurs primarily in the endoplasmic reticulum.

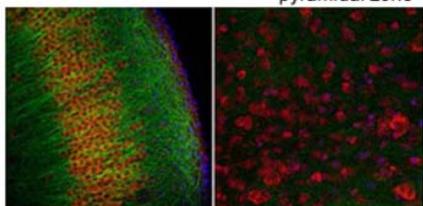
画像



Western blot - Anti-TRPV4 antibody (ab94868)

Western blot analysis of PANC1 cells labeling TRPV4 with ab94868 at 1.0 µg/ml.

a) Pyramidal zone (CA1 band) b) Outside the pyramidal zone



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRPV4 antibody (ab94868)

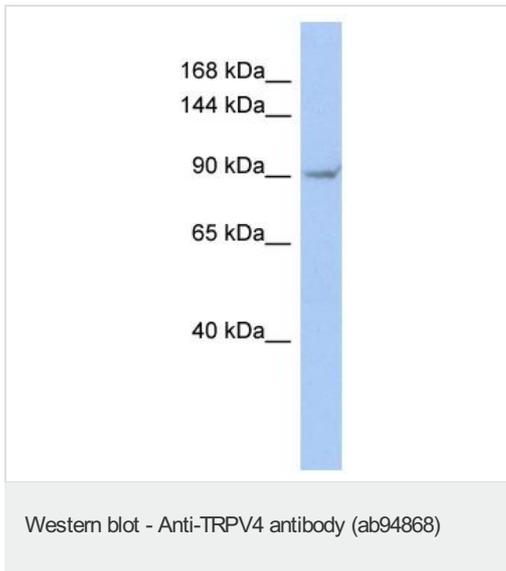
ab94868 staining TRPV4 in cultured hippocampal slices of rat brain by Immunohistochemistry - PFA fixed sections.

Slice cultures attached to the PTFE membrane were fixed with 4% paraformaldehyde in PBS for 20 minutes at room temperature. They were permeabilized with 1% Triton X-100 in PBS overnight at 4 °C, then blocked with 3% bovine serum albumin (BSA) in PBS and incubated overnight at 4 °C with ab94868 (Red) at a 1/500 dilution. Following washes with PBS and blocking with 3% BSA, tissue was incubated for 1 hour at room temperature with Alexa Fluor 568-conjugated goat anti-rabbit antibody diluted 1/500 in blocking solution. Tissue was washed in PBS, mounted with DAPI.

Blue: DAPI.

Green: anti-Map2.

Red: ab94868.



Anti-TRPV4 antibody (ab94868) at 1 μ g/ml +
HT1080 cell lysate at 10 μ g

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000
dilution

Predicted band size: 91 kDa

Gel concentration: 6-18%

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