

Rabbit TRPV4 Polyclonal Antibody | anti-TRPV4 antibody

TRPV4 antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA197958	Rabbit	Cow, Dog, Guinea Pig, Human, Mouse, Pig, Rabbit, Rat	Western Blot, Immunohistochemistry

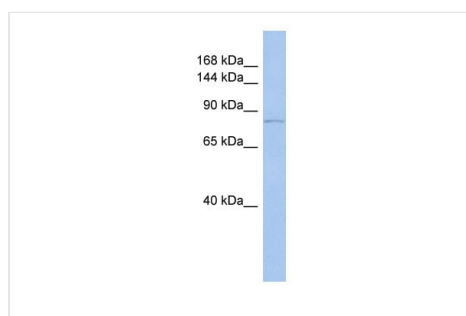
PRODUCT SYNONYMS

TRPV4; Polyclonal Antibody; TRPV4 antibody - middle region; anti-TRPV4 antibody

PRODUCT SPECIFICATIONS

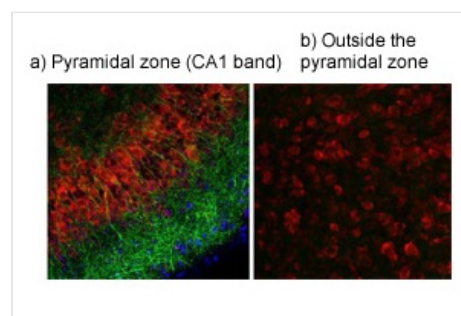
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Human, Mouse, Pig, Rabbit, Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: RV DEVNWSHWNQ NLGIINEDPG KNETYQYYGF SHTVGRLRRD RWSSVVPR
Sequence Length	811
Applicable Applications for anti-TRPV4 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Cow: 93%; Dog: 86%; Guinea Pig: 86%; Human: 100%; Mouse: 86%; Pig: 93%; Rabbit: 100%; Rat: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human TRPV4
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

WB Suggested Anti-TRPV4 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:12500
Positive Control: ACHN cell lysate



IHC (Immunohistochemistry)

TRPV4 Rat Hippocampus
We tested the antibodies in Immunohistochemistry studies. The dilutions for all the above primary antibodies were 1:500 and the same for the secondary antibody, Alexa Fluor 568-conjugated goat anti-rabbit antibodies (Invitrogen).

ADDITIONAL INFORMATION

Related Product Information for anti-TRPV4 antibody	This is a rabbit polyclonal antibody against TRPV4. It was validated on Western Blot using a cell lysate as a positive control. Target Description: TRPV4 is a non-selective calcium permeant cation channel probably involved in osmotic sensitivity and mechanosensitivity. Activation of TRPV4 by exposure to hypotonicity within the physiological range exhibits an outward rectification. TRPV4 also activated by low pH, citrate and phorbol esters and increase of intracellular Ca2+ potentiates currents. Channel activity seems to be regulated by a calmodulin-dependent mechanism with a negative feedback mechanism.Defects in TRPV4 are the cause of brachyolmia type 3 (BRAC3) This gene encodes a member of the OSM9-like transient receptor potential channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. The encoded protein is a Ca2+-permeable, nonselective cation channel that is thought to be involved in the regulation of systemic osmotic pressure. Two transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-TRPV4 antibody	Polyclonal; Ion Channel; Membrane Protein; Disease Related; Immunohistochemistry; Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	22547180
NCBI GeneID	59341
NCBI Accession #	NP_671737
NCBI GenBank Nucleotide #	NM_147204
UniProt Accession #	Q9HBA0
Molecular Weight	91kDa
NCBI Official Full Name	transient receptor potential cation channel subfamily V member 4 isoform b
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily V member 4
NCBI Official Symbol	TRPV4
NCBI Official Synonym Symbols	SMAL; VRL2; BCYM3; CMT2C; SPSMA; TRP12; VROAC; HMSN2C; OTRPC4; SSQTL1
NCBI Protein Information	transient receptor potential cation channel subfamily V member 4
UniProt Protein Name	Transient receptor potential cation channel subfamily V member 4
UniProt Gene Name	TRPV4
UniProt Synonym Gene Names	VRL2; VROAC; TrpV4; OTRPC4; TRP12; VRL-2; VR-OAC
UniProt Entry Name	TRPV4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.