TRPV1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRPV1, Polyclonal Antibody
Full Product Name	TRPV1 Antibody, HRP conjugated
Product Gene Name	anti-TRPV1 antibody
Product Synonym Names	Transient receptor potential cation channel subfamily V member 1; TrpV1; Capsaicin receptor; Osm-9-like TRP channel 1; OTRPC1; Vanilloid receptor 1; TRPV1; VR1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: TRPV1 (MBS7050755) HRP Conjugated Antibody: TRPV1 (MBS7050756)
Molecular Weight	94,211 Da
OMIM	AJ277028 mRNA
3D Structure	ModBase 3D Structure for Q8NER1
Immunogen	Recombinant Human Transient receptor potential cation channel subfamily V member 1 protein (1-155AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	HRP
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-12498 / sc-12500 / sc-12502 / sc-12503 / sc-20813 / sc-28759
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TRPV1 antibody	ELISA (EIA)
Related Product Information for anti-TRPV1 antibody	Ligand-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli. Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. Involved in mediation of inflammatory pain and hyperalgesia. Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL. Activation by vanilloids, like capsaicin, and temperatures higher than 42 degrees Celsius, exhibits a time- and Ca(2+)-dependent outward rectification, followed by a long-lasting refractory state. Mild extracellular acidic pH (6.5) potentiates channel activation by noxious heat and vanilloids, whereas acidic conditions (pH <6) directly activate the channel. Can be activated by endogenous compounds, including 12-hydroperoxytetraenoic acid and bradykinin. Acts as ionotropic endocannabinoid receptor with central neuromodulatory effects. Triggers a form of long-term depression (TRPV1-LTD) mediated by the endocannabinoid anandamine in the hippocampus and nucleus accumbens by affecting AMPA receptors endocytosis.

Other Notes	Small volumes of anti-TRPV1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRPV1 purchase	MBS7050756 is an antibody targeting TRPV1. Also known as TRPV1 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPV1. It may not necessarily be applicable to this product.

NCBI GI #	74315350
NCBI GeneID	7442
NCBI Accession #	NP_061197.4
UniProt Primary Accession #	Q8NER1
UniProt Secondary Accession #	Q3LU47; Q9H0G9; Q9H303; Q9H304; Q9NQ74; Q9NY22; A2RUA9
UniProt Related Accession #	Q8NER1
GenBank Nucleotide #	NM_018727.5
NCBI Official Full Name	transient receptor potential cation channel subfamily V member 1
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily V member 1
NCBI Official Symbol	TRPV1
NCBI Official Synonym Symbols	VR1
UniProt Protein Name	Transient receptor potential cation channel subfamily V member 1
UniProt Synonym Protein Names	Capsaicin receptor; Osm-9-like TRP channel 1; OTRPC1; Vanilloid receptor 1
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	TRPV1
UniProt Synonym Gene Names	VR1; TrpV1; OTRPC1
UniProt Entry Name	TRPV1_HUMAN
NCBI Protein Information	transient receptor potential cation channel subfamily V member 1
NCBI Summary for TRPV1	Capsaicin, the main pungent ingredient in hot chili peppers, elicits a sensation of burning pain by selectively activating sensory neurons that convey information about noxious stimuli to the central nervous system. The protein encoded by this gene is a receptor for capsaicin and is a non-selective cation channel that is structurally related to members of the TRP family of ion channels. This receptor is also activated by increases in temperature in the noxious range, suggesting that it functions as a transducer of painful thermal stimuli in vivo. Four transcript variants encoding the same protein, but with different 5' UTR sequence, have been described for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for TRPV1	TRPV1: a receptor for capsaicin and a non-selective cation channel that is structurally related to members of the TRP family of ion channels. Activated by increases in temperature in the noxious range, suggesting that it functions as a transducer of painful thermal stimuli in vivo. Protein type: Channel, cation; Membrane protein, integral; Membrane protein, multi-pass; Receptor, misc. Chromosomal Location of Human Ortholog: 17p13.2 Cellular Component: integral to membrane; integral to plasma membrane; intrinsic to plasma membrane; plasma membrane; postsynaptic membrane Molecular Function: ATP binding; calcium channel activity; calcium-release channel activity; excitatory extracellular ligand-gated ion channel activity; extracellular ligand-gated ion channel activity; phosphoinositide binding; phosphoprotein binding; transmembrane receptor activity Biological Process: cell surface receptor linked signal transduction; chemosensory behavior; protein homotetramerization; thermoception; transport
Research Articles on TRPV1	**1.** Temperature sensors in TRPV1 activate in two steps to favor opening, and that the binding of sodium to an extracellular site exerts allosteric control over temperature-sensor activation and opening of the pore.
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