

Rabbit anti-Human TRPV4 Polyclonal Antibody | anti-TRPV4 antibody

TRPV4 Antibody

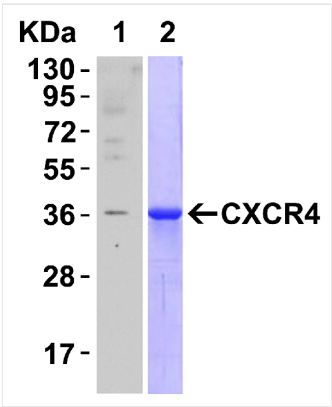
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40739	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

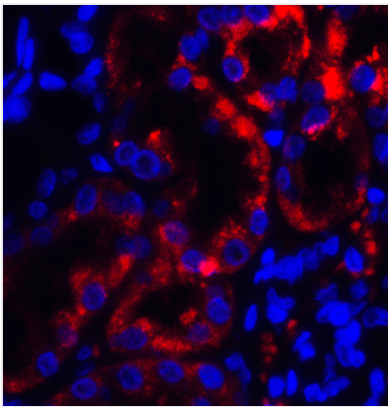
TRPV4; Polyclonal Antibody; TRPV4 Antibody; SMAL; VRL2; CMT2C; SPSMA; TRP12; VROAC; HMSN2C; OTRPC4; SSQTL1; Transient receptor potential cation channel subfamily V member 4; Osm-9-like TRP channel 4; TrpV4; transient receptor potential cation channel; subfamily V; member 4; anti-TRPV4 antibody

PRODUCT SPECIFICATIONS

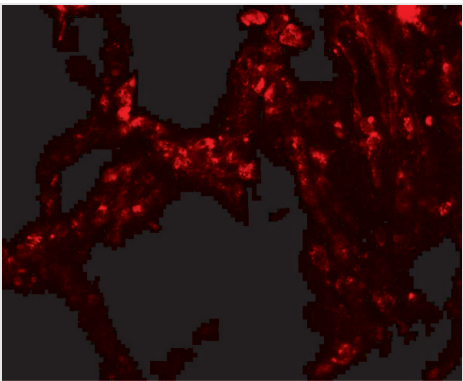
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	TRPV4 antibody is human specific. At least six isoforms of TRPV4 are known to exist. This antibody is predicted to not cross-react with other TRP protein family members.
Purity/Purification	TRPV4 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	871
Applicable Applications for anti-TRPV4 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	TRPV4 antibody was raised against an 18 amino acid peptide near the center of human TRPV4.
Buffer	TRPV4 antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	TRPV4 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.



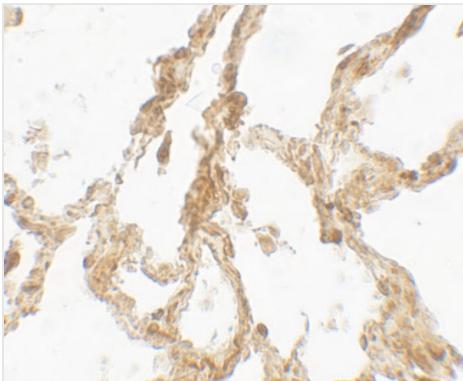
IHC (Immunohistochemistry)
Immunohistochemistry of TRPV4 in human kidney tissue with TRPV4 antibody at 2 μg/mL.



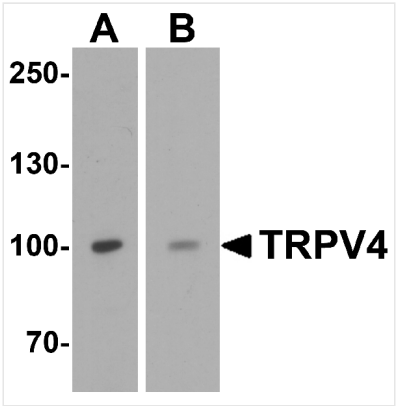
IF (Immunofluorescence)
Immunofluorescence of TRPV4 in human kidney tissue with TRPV4 antibody at 5 μg/mL. Red: TRPV4 Antibody (7695) Blue: DAPI staining



IF (Immunofluorescence)
Immunofluorescence of TRPV4 in human lung tissue with TRPV4 antibody at 20 μg/mL.



IHC (Immunohistochemistry)
Immunohistochemistry of TRPV4 in human lung tissue with TRPV4 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of TRPV4 in (A) human testis tissue and (B) SK-N-SH cell lysate with TRPV4 antibody at 1 μg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-TRPV4 antibody

The transient receptor potential (TRP) protein family consists of a diverse group of cation channels functioning in a variety of homeostatic and regulatory pathways. Four subfamilies exist, based on channel domain homology: C type (canonical), V type (vanilloid receptor related), M type (melastatin related) and P type (PKD) (1). TRPV4, belongs to the V type subfamily and plays a role in systemic osmoregulation (2,3). TRPV4 is a calcium channel multi-pass membrane protein activated by various stimuli, including thermal stress, fatty acid metabolites and hypotonicity (3). TRPV4 is highly expressed in lung and kidney and widely expressed in brain. It plays an important role in regulating neural excitability (4).

NCBI AND UNIPROT INFORMATION

NCBI GI #	22547184
NCBI GeneID	59341
NCBI Accession #	NP_067638
NCBI GenBank Nucleotide #	NM_021625.4
UniProt Accession #	Q9HBA0; Q17R79; Q2Y122; Q2Y123; Q2Y124; Q86YZ6; Q8NDY7; Q8NG64; Q96Q92; Q96RS7; Q9HBC0; B7ZKQ6
Molecular Weight	Predicted: 96 kDa Observed: 110 kDa
NCBI Official Full Name	transient receptor potential cation channel subfamily V member 4 isoform a
NCBI Official Synonym Full Names	transient receptor potential cation channel, subfamily V, member 4
NCBI Official Symbol	TRPV4
NCBI Official Synonym Symbols	SMAL; VRL2; CMT2C; SPSMA; TRP12; VROAC; HMSN2C; OTRPC4; SSQTL1
NCBI Protein Information	transient receptor potential cation channel subfamily V member 4; osm-9-like TRP channel 4; vanilloid receptor-like channel 2; transient receptor potential protein 12; OSM9-like transient receptor potential channel 4; osmosensitive transient receptor potential channel 4; vanilloid receptor-related osmotically activated channel
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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/trpv4-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40739>