

## Product datasheet for **TA326707**

### TRPV4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	WB: 0.5-2 µg/mL IHC-P: 1-2 µg/mL IHC-P/IF: 5-20 µg/mL.

Antibody validated: Western Blot in human, mouse and rat samples  
Immunohistochemistry in human, mouse, and rat samples  
Immunofluorescence in the human sample. All other applications and species not yet tested.

Reactivity: Human, Human, Mouse, Rat

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

Immunogen: Anti-TRPV4 antibody (**7695**) was raised against a peptide corresponding to 18 amino acid synthetic peptide near the center of human TRPV4.

The immunogen is located within amino acids 380-430 of TRPV4.

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.

Formulation: TRPV4 antibody is supplied in PBS containing 0.02% sodium azide.

Concentration: 1 mg/mL

Purification: TRPV4 antibody is affinity chromatography purified via peptide column.

Conjugation: Unconjugated

Storage: TRPV4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: Predicted: 98kD

Observed: 98 kD



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<b>Gene Name:</b>	transient receptor potential cation channel subfamily V member 4
<b>Database Link:</b>	<a href="#">NP_067638</a> <a href="#">Entrez Gene 59341 Human</a> <a href="#">Q9HBA0</a>
<b>Background:</b>	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).
<b>Synonyms:</b>	BCYM3; CMT2C; HMSN2C; OTRPC4; SMAL; SPSMA; SSQTL1; TRP12; VRL2; VROAC
<b>Note:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane