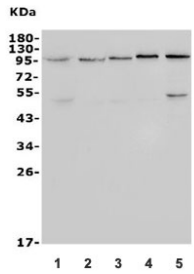
TRPV4 Antibody (RQ5775)

Catalog No.	Formulation	Size
RQ5775	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9HBA0
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This TRPV4 antibody is available for research use only.



Western blot testing of 1) human HEK293, 2) rat PC-3, 3) rat C6, 4) mouse brain and 5) mouse testis lysate with TRPV4 antibody. Expected molecular weight: 90-110 kDa depending on level of glycosylation.

Description

TRPV4 (Transient Receptor Potential Cation Channel Subfamily V Member 4), also known as TRP12, OTRPC4 or VROAC, is a protein that in humans is encoded by the TRPV4 gene. This gene encodes TRPV4, a member of the OSM9-like transient receptor potential channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. By genomic sequence analysis, Liedtke et al.(2000) mapped the TRPV4 gene to chromosome 12q24.1. They mapped the mouse Trpv4 gene to distal chromosome 5 by radiation hybrid analysis. Wissenbach et al.(2000) found that hypoosmotic conditions rapidly activated TRP12, while hyperosmotic conditions inhibited the activity. Strotmann et

al.(2000) showed that OTRPC4 was responsive to changes in extracellular osmolarity in the physiologically relevant range and was expressed in tissues exposed to changing osmotic environments.

Application Notes

Optimal dilution of the TRPV4 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids N66-L871) was used as the immunogen for the TRPV4 antibody.

Storage

After reconstitution, the TRPV4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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