

Basic Information

Product Name	Anti-TRPV4 Antibody
Gene Name	TRPV4
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human TRPV4 recombinant protein (Position: N66-L871).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	98 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

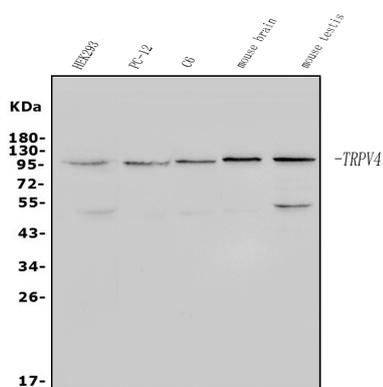
Background Information

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.

Reference

Anti-TRPV4 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of TRPV4 using anti-TRPV4 antibody

(A00565-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HEK293 whole cell lysates,

Lane 2: rat PC-12 whole cell lysates,

Lane 3: rat C6 whole cell lysates,

Lane 4: mouse brain tissue lysates,

Lane 5: mouse testis tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-TRPV4 antigen

affinity purified polyclonal antibody (A00565-2) at a dilution of

1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for TRPV4 at approximately 98 kDa. The expected band

size for TRPV4 is at 98 kDa.