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TRPV4 Rabbit mAb

Catalog No.: A29356 Recombinant

Basic Information

Observed MW
95-102 kDa

Calculated MW
85-98 kDa

Category
Primary antibody

Applications
WB,IP,IHC-P,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC3945

Background

This gene encodes a member of the OSM9-like transient receptor potential channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. The encoded protein is a Ca2+-permeable, nonselective cation channel that is thought to be involved in the regulation of systemic osmotic pressure. Mutations in this gene are the cause of spondylometaphyseal and metatropic dysplasia and hereditary motor and sensory neuropathy type IIC. Multiple transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB	1:2000 - 1:10000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IHC-P	1:100 - 1:400
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
59341

Swiss Prot
Q9HBA0

Immunogen
This information is considered to be commercially sensitive.

Synonyms
SMAL; VRL2; BCYM3; CMT2C; SPSMA; TRP12; VROAC; HMSN2C; OTRPC4; SSQTL1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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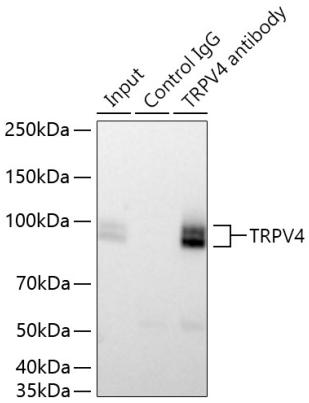
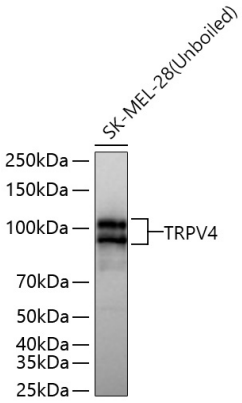
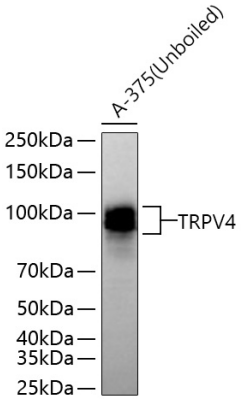
Validation Data



Immunoprecipitation of TRPV4 from 300 µg extracts of A-375 cells was performed using 2 µg of TRPV4 Rabbit mAb (A29356). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using TRPV4 Rabbit mAb (A29356) at a dilution of 1:5000.

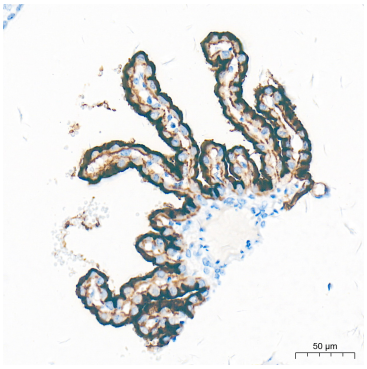


Western blot analysis of lysates from SK-MEL-28 cells using TRPV4 Rabbit mAb (A29356) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.

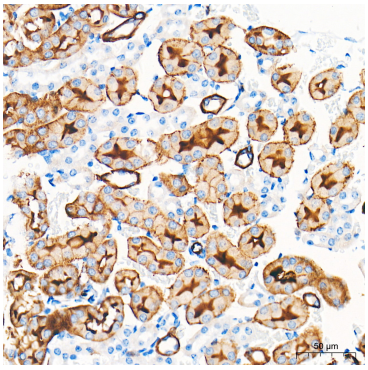


Western blot analysis of lysates from A-375 cells using TRPV4 Rabbit mAb (A29356) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using TRPV4 Rabbit mAb (A29356) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using TRPV4 Rabbit mAb (A29356) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.