

For Research Use Only

# TRPV4 Polyclonal antibody, PBS Only

Catalog Number: 27892-1-PBS



## Basic Information

Catalog Number:

27892-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27253

GenBank Accession Number:

NM\_001177428.1

GeneID (NCBI):

59341

UNIPROT ID:

Q9HBA0

Full Name:

transient receptor potential cation channel, subfamily V, member 4

Calculated MW:

98 kDa

Observed MW:

85-98 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IF/ICC, Indirect ELISA

Species Specificity:

human

## Background Information

TRPV4, also named as VRL2 and VROAC, belongs to the transient receptor family and TrpV subfamily. It is a non-selective calcium permeant cation channel protein which involved in osmotic sensitivity and mechanosensitivity. Activation by exposure to hypotonicity within the physiological range exhibits an outward rectification. It is activated by low pH, citrate and phorbol esters. Channel activity seems to be regulated by a calmodulin-dependent mechanism with a negative feedback mechanism. Defects in TRPV4 are the cause of brachyolmia type 3 (BRAC3), spondylometaphyseal dysplasia Kozlowski type (SMDK) and metatropic dysplasia (MTD). Multiple transcript variants encoding different isoforms have been found.

## Storage

Storage:

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

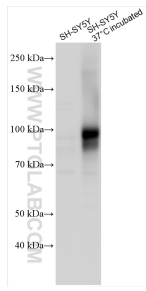
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

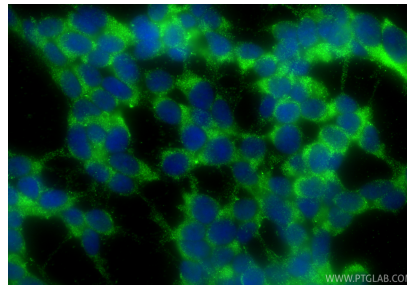
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



SH-SY5Y cell lysates (heated at 100°C, heated at 37°C) were subjected to SDS PAGE followed by western blot with 27892-1-AP (TRPV4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 27892-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using TRPV4 antibody (27892-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 27892-1-PBS in a different storage buffer formulation.