

For Research Use Only

# TRPV4 Polyclonal antibody

Catalog Number: 27892-1-AP



## Basic Information

<b>Catalog Number:</b> 27892-1-AP	<b>GenBank Accession Number:</b> NM_001177428.1	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 59341	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9HBA0	
<b>Isotype:</b> IgG	<b>Full Name:</b> transient receptor potential cation channel, subfamily V, member 4	
<b>Immunogen Catalog Number:</b> AG27253	<b>Calculated MW:</b> 98 kDa	
	<b>Observed MW:</b> 85~98 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : 37°C incubated SH-SY5Y cells,
<b>Species Specificity:</b> 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

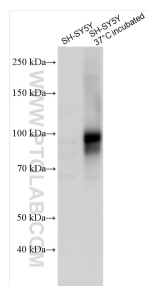
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1%BSA

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