

For Research Use Only

TRPV4 Polyclonal antibody, PBS Only

Catalog Number: 27892-1-PBS



Basic Information

Catalog Number: 27892-1-PBS	GenBank Accession Number: NM_001177428.1	Purification Method: Antigen affinity purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 59341	
Source: Rabbit	UNIPROT ID: Q9HBA0	
Isotype: IgG	Full Name: transient receptor potential cation channel, subfamily V, member 4	
Immunogen Catalog Number: AG27253	Calculated MW: 98 kDa	
	Observed MW: 85-98 kDa	

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.

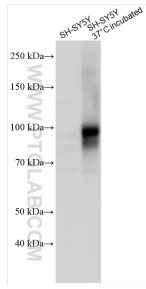
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

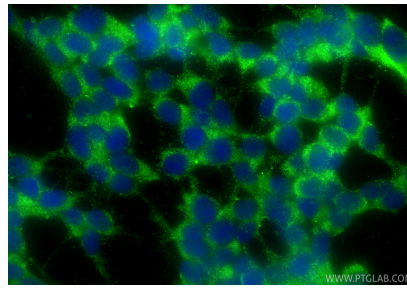
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. 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.