

For Research Use Only

TRPV4 Recombinant antibody, PBS Only

Catalog Number: 84091-4-PBS



Basic Information

Catalog Number: 84091-4-PBS	GenBank Accession Number: NM_001177428.1	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 59341	CloneNo.: 241143H1
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, Indirect ELISA

Species Specificity:
human, rat

Background Information

TRPV4, also called 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

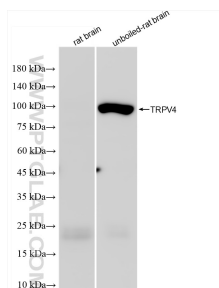
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

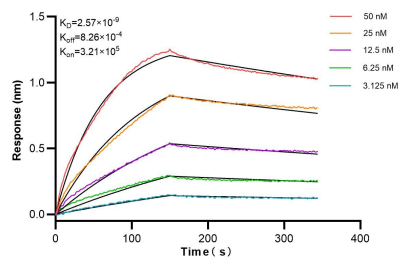
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Selected Validation Data



Rat brain tissue (heated at 100 °C and unboiled) lysates were subjected to SDS PAGE followed by western blot with 84091-4-RR (TRPV4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84091-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84091-4-RR against Human TRPV4 were performed. The affinity constant is 2.57 nM.