

For Research Use Only

TRPV4 Recombinant antibody

Catalog Number: 84091-4-RR



Basic Information

Catalog Number:

84091-4-RR

Concentration:

1000 µg/ml

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:

Protein A purification

CloneNo.:

241143H1

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, rat

Positive Controls:

WB: unboiled rat brain tissue,

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 -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

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

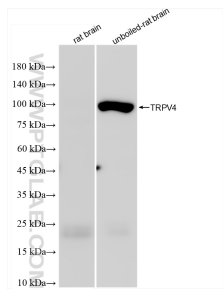
T: 4006900926

E: Proteintech-CN@ptglab.com

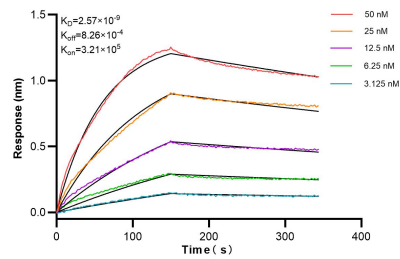
W: ptgcn.com

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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.



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