

For Research Use Only

# CACNA2D4 Polyclonal antibody, PBS Only

Catalog Number: 26674-1-PBS



## Basic Information

Catalog Number:

26674-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24464

GenBank Accession Number:

BC150186

GeneID (NCBI):

93589

UNIPROT ID:

Q7Z3S7

Full Name:

calcium channel, voltage-dependent,  
alpha 2/delta subunit 4

Calculated MW:

1137 aa, 128 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## Background Information

Calcium voltage-gated channel auxiliary subunit alpha2delta 4 (CACNA2D4, also known as RCD4) is a member of the alpha-2/delta subunit family within the voltage-dependent calcium channel complex. The  $\alpha 2 \delta 4$  subunit of retinal voltage-gated calcium channels (Cav), is crucial for developing and mature exocytotic function of the photoreceptor ribbon synapse (PMID: 29875267). CACNA2D4 is localized to the retina, particularly in photoreceptors, where it is essential for organizing synaptic ribbons and setting Cav1.4 voltage sensitivity (PMID: 28262416). In humans, mutations in CACNA2D4 are associated with autosomal recessive cone dystrophy, a condition that affects the photoreceptor cells in the retina (PMID: 16877424).

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

The product is shipped with ice packs. Upon receipt, store it immediately at  $-80^{\circ}\text{C}$

Storage Buffer:

PBS only, pH7.3

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

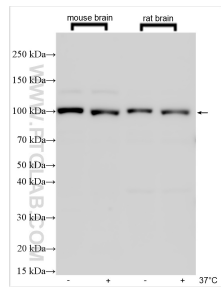
T: 4006900926

E: Proteintech-CN@ptglab.com

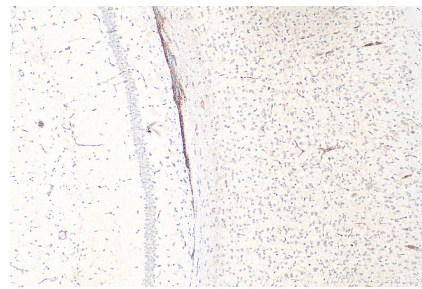
W: ptgcn.com

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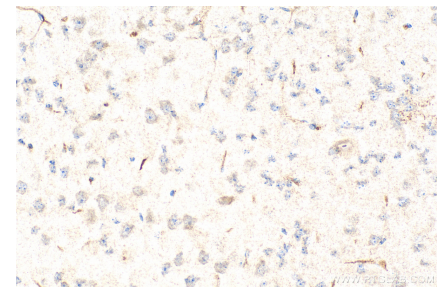
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26674-1-AP (CACNA2D4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 26674-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26674-1-AP (CACNA2D4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26674-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26674-1-AP (CACNA2D4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 26674-1-PBS in a different storage buffer formulation.