## For Research Use Only

## CACNA2D4 Polyclonal antibody

Catalog Number:26674-1-AP

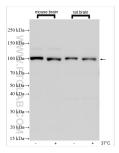


Basic Information	Catalog Number: 26674-1-AP	GenBank Accession Number: BC150186	Purification Method: Antigen affinity purification		
	Concentration: 700 ug/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG24464	GeneID (NCBI): 93589 UNIPROT ID: Q7Z3S7	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500		
				Full Name: calcium channel, voltage-dependent, alpha 2/delta subunit 4 Calculated MW: 1137 aa, 128 kDa	
		Observed MW: 100 kDa			
		Applications	Tested Applications: WB, IHC, ELISA Species Specificity: human, mouse, rat	Positive	Controls:
				WB : mouse brain tissue, rat brain tissue IHC : mouse brain tissue,	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
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 -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and				

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data





Immunohistochemical analysis of paraffinembedded 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).



Immunohistochemical analysis of paraffinembedded 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).

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.