For Research Use Only

CACNA2D4 Polyclonal antibody

Catalog Number:26674-1-AP

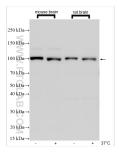


Basic Information	Catalog Number: 26674-1-AP	GenBank Accession Number: BC150186	Purification Method: Antigen affinity purification		
	Concentration: 700 ug/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG24464	GeneID (NCBI): 93589 UNIPROT ID: Q7Z3S7	Recommended Dilutions: WB 1:500-1:2000 IHC 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 α 2 δ 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.