## For Research Use Only

CACNA1C Polyclonal antibody, PBS Only proteintech®

Catalog Number:21774-1-PBS

Basic Information	Catalog Number: 21774-1-PBS	GenBank Accession Number: BC 146846	Purification Method: Antigen affinity purification
	Size:	GenelD (NCBI):	·····B-·········
	100ug , Concentration: 1 mg/ml by	775	
	Nanodrop;	UNIPROT ID:	
	Source:	Q13936	
	Rabbit	Full Name:	
	Isotype:	calcium channel, voltage-depend	ent,
	IgG	L type, alpha 1C subunit	
	Immunogen Catalog Number: AG16455	Calculated MW: 249 kDa Observed MW: 200 kDa	
Applications	Tested Applications: WB, IHC, IF-P, FC (Intra), Indirect ELISA Species Specificity: human, mouse, rat		
Background Information	Calcium voltage-gated channel subunit alpha1 C (CACNA1C, also known as CACH2 and Cav1.2) couples transient activation of inward calcium current to transcriptional regulation and plays an important role in dendritic development, neuronal survival, synaptic plasticity, memory formation, learning, and behavior (PMID: 21248242; 16251435; 20169575; 19047462; 18174367). Genetic variation in CACNA1C has also been associated with depression, schizophrenia, and autism spectrum disorders, as well as changes in brain function and structure in control subjects who have no diagnosable psychiatric illness (PMID: 22705413).		
Storage	Storage: Store at -80°C. Storage Buffer: PBS only		

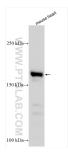
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

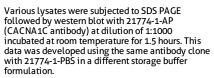
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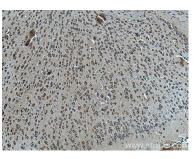
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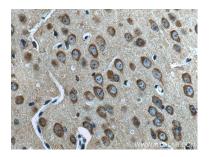
## Selected Validation Data



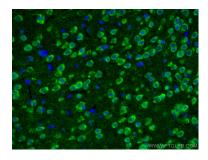




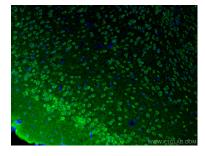
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 21774-1-AP (L-VOCC antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 21774-1-PBS in a different storage buffer formulation.



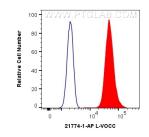
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 21774-1-AP (L-VOCC antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 21774-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using L-VOCC antibody (21774-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 21774-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using L-VOCC antibody (21774-1-AP) at dilution of 1:200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 21774-1-PBS in a different storage buffer formulation.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human L-VOCC (21774-1-AP) and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit  $\lg(H+L)$  at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 21774-1-PBS in a different storage buffer formulation.