

For Research Use Only

KCNIP4 Monoclonal antibody

Catalog Number: 60133-1-Ig **2 Publications**



Basic Information

Catalog Number: 60133-1-Ig	GenBank Accession Number: BC032520	Purification Method: Protein G purification
Size: 150ul , Concentration: 1200 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 80333	CloneNo.: 5B1D12
Source: Mouse	UNIPROT ID: Q6PIL6	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF-P 1:200-1:800
Isotype: IgG1	Full Name: Kv channel interacting protein 4	
Immunogen Catalog Number: AG4863	Calculated MW: 250 aa, 28 kDa	
	Observed MW: 29 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Cited Applications: WB, IF	WB : pig brain tissue, human brain tissue, rat brain tissue
Species Specificity: human, rat, pig, mouse	IHC : human brain tissue,
Cited Species: human, mouse	IF-P : 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

KCNIP4 is a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium.

Notable Publications

Author	Pubmed ID	Journal	Application
S Akila Parvathy Dharshini	39574639	bioRxiv	WB,IF
Jia-Qi Ma	39635132	iScience	IF

Storage

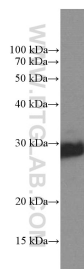
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

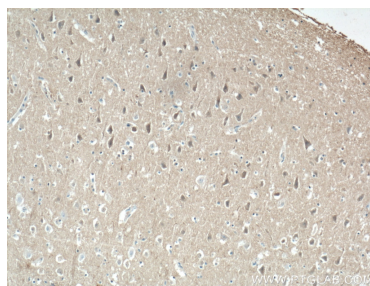
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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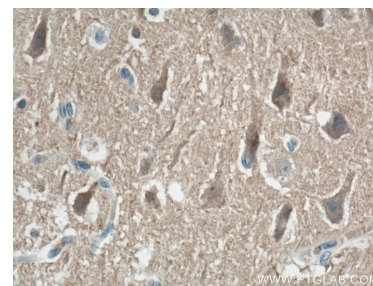
Selected Validation Data



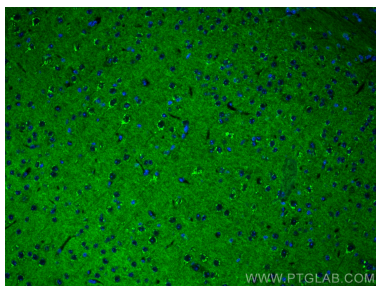
pig brain tissue were subjected to SDS PAGE followed by western blot with 60133-1-Ig (KCNIP4 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



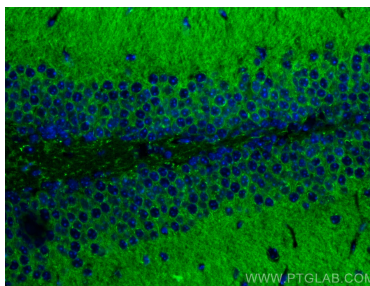
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 60133-1-Ig (KCNIP4 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 60133-1-Ig (KCNIP4 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using KCNIP4 antibody (60133-1-Ig, Clone: 5B1D12) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using KCNIP4 antibody (60133-1-Ig, Clone: 5B1D12) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).