For Research Use Only

KChIP1 Monoclonal antibody

Catalog Number:66439-1-Ig

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Basic Information

Catalog Number:
66439-1-Ig

Size:
1300 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG5494

GenBank Accession Number:
BC050375

GeneID (NCBI):
30820

UNIPROT ID:
Q9NZI2

Full Name:
Kv channel interacting protein 1

Calculated MW:
227 aa, 27 kDa

Observed MW:
25 kDa

Purification Method:
Protein G purification

CloneNo.:
3D6C1

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:50-1:500
IF-P 1:200-1:800

Applications

Tested Applications:
IF-P, IHC, WB, ELISA

Species Specificity:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human cerebellum tissue, fetal human brain tissue, human spleen tissue

IHC : human brain tissue, human heart tissue

IF-P : mouse brain tissue,

Background Information

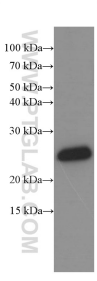
Human K(v) channel interacting protein 1 (KCHIP1) is a new member of the neural calcium binding protein superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. KChIP1 is a neuronal calcium sensor protein that is predominantly expressed at GABAergic synapses and it has been related with modulation of K(+) channels, GABAergic transmission and cell death.

Storage

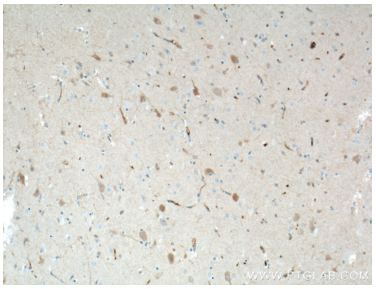
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

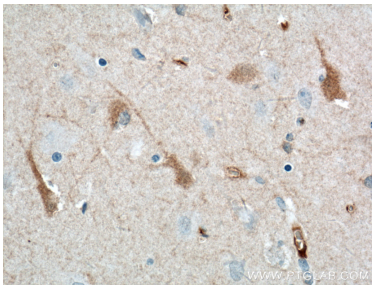
Selected Validation Data



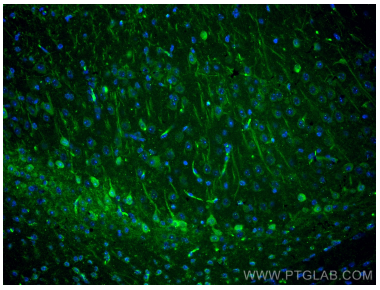
human cerebellum tissue were subjected to SDS PAGE followed by western blot with 66439-1-Ig (KChIP1 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.



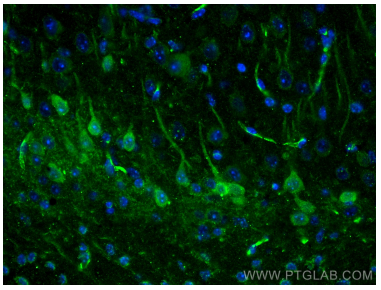
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66439-1-Ig (KChIP1 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66439-1-Ig (KChIP1 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 KChIP1 antibody (66439-1-Ig, Clone: 3D6C1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using KChIP1 antibody (66439-1-Ig, Clone: 3D6C1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).