

For Research Use Only

KChIP1 Polyclonal antibody

Catalog Number: 14212-1-AP



Basic Information

Catalog Number:

14212-1-AP

Size:

150ul, Concentration: 133 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5432

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

Species Specificity:

human

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, human brain tissue

IP : fetal human brain tissue,

IHC : human pancreas cancer 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

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

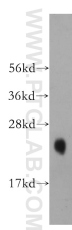
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

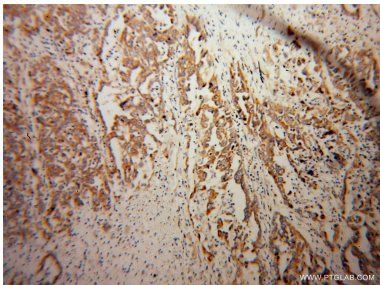
E: proteintech@ptglab.com
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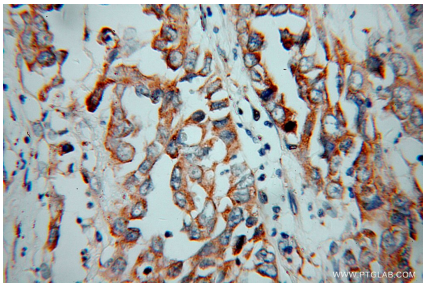
Selected Validation Data



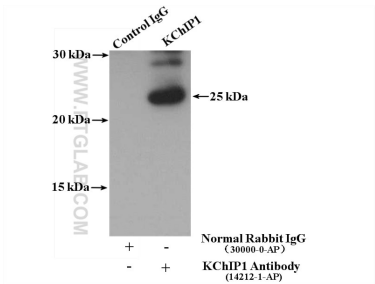
human cerebellum tissue were subjected to SDS PAGE followed by western blot with 14212-1-AP (KChIP1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



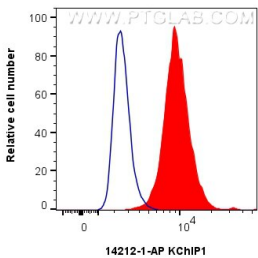
Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 14212-1-AP (KChIP1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 14212-1-AP (KChIP1 antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-KChIP1 (IP:14212-1-AP, 4ug; Detection:14212-1-AP 1:300) with fetal human brain tissue lysate 3500 ug.



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug KChIP1 Polyclonal antibody (14212-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).