

For Research Use Only

KCTD12 Polyclonal antibody

Catalog Number:15523-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

15523-1-AP

Concentration:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5716

GenBank Accession Number:

BC013764

GeneID (NCBI):

115207

UNIPROT ID:

Q96CX2

Full Name:

potassium channel tetramerisation domain containing 12

Calculated MW:

36 kDa

Observed MW:

36 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

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 : mouse brain tissue, MCF-7 cells, human brain tissue, HEK-293 cells, HeLa cells, rat brain tissue

IHC : human bowen disease, human intrahepatic cholangiocarcinoma tissue, human stomach tissue

IF/ICC : HeLa cells,

Background Information

KCTD12 also known as PFET1 or PFETIN, which contains a voltage-gated potassium (K+) channel tetramerization T1 domain and a BTB/POZ (Bric-a-brac, Tram-track, Broad complex poxvirus and zinc finger) domain, belongs to the KCTD family and was initially identified in cochlea. In addition to being a K+ channel protein that responds to membrane potential⁷, KCTD12 also acts as an auxiliary subunit of GABAB (γ -aminobutyric acid type B) receptors, which regulate emotionality and neuronal excitability.

Notable Publications

Author	Pubmed ID	Journal	Application
Y Zhong	28869606	Oncogene	WB,IHC,IF
Javier H Jara	32508590	Front Mol Neurosci	IF
Kelly A Hamilton	29715265	PLoS One	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

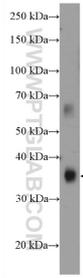
T: 4006900926

E: Proteintech-CN@ptglab.com

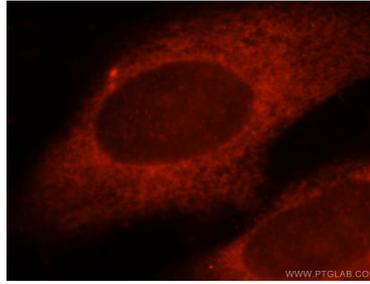
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

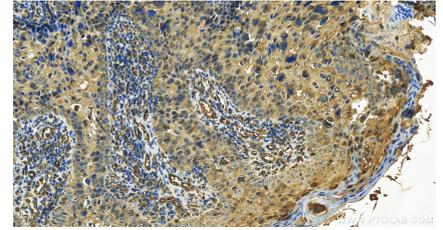
Selected Validation Data



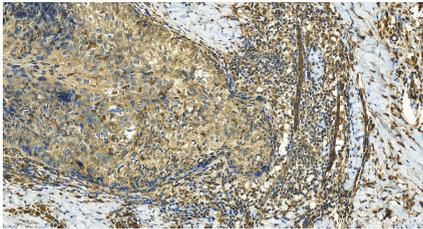
mouse brain tissue were subjected to SDS PAGE followed by western blot with 15523-1-AP (KCTD12 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells, using KCTD12 antibody 15523-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human Bowen disease slide using 15523-1-AP (KCTD12 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human Bowen disease slide using 15523-1-AP (KCTD12 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).