

For Research Use Only

KCTD12 Polyclonal antibody

Catalog Number: 15523-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

15523-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

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

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,

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

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

*** 20ul sizes contain 0.1% BSA

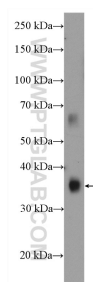
For technical support and original validation data for this product please contact:

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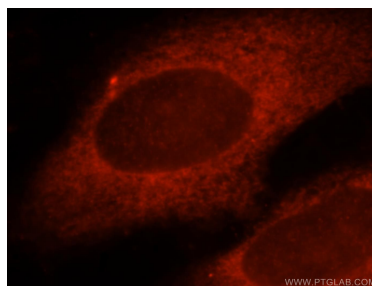
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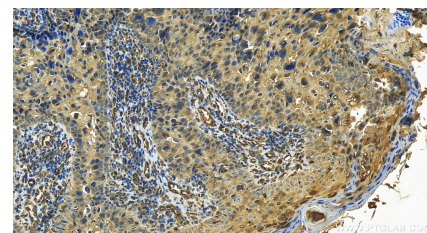
Selected Validation Data



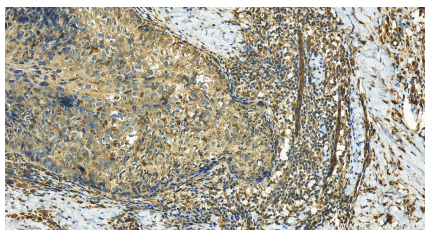
mouse brain tissue were subjected to SDS PAGE followed by western blot with 15523-1-AP (KCTD12 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).