

For Research Use Only

PICK1 Polyclonal ANTIBODY



Catalog Number: 10983-2-AP

Featured Product

5 Publications

Basic Information

Catalog Number:

10983-2-AP

Size:

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

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1443

GenBank Accession Number:

BC017561

GeneID (NCBI):

9463

Full Name:

protein interacting with PRKCA 1

Calculated MW:

47 kDa

Observed MW:

50-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

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, human brain tissue

IP: mouse brain tissue,

IHC: human prostate cancer tissue, human breast cancer tissue

IF: HEK-293 cells,

Background Information

Protein interacting with C kinase 1 (PICK1) was first cloned as a PKC-binding partner through yeast two hybrid system. PICK1 acts as a critical regulator of membrane receptors' subcellular trafficking to modulate neural processes such as learning and memory, and is widely expressed in brain, testis, heart, lung, liver, kidney and muscle. It probably binds to and organize the subcellular localization of a variety of membrane proteins containing some PDZ recognition sequence, for instance, PICK1 is a critical mediator of α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor (AMPA) trafficking in neural synapses. PICK1 expression on D-serine release and glutamate transport in astrocytes suggests a potential implication of PICK1 in the progression of amyotrophic lateral sclerosis (ALS). PICK1 may also participate in breast cancer development through inhibition of TGF- β signaling.

Notable Publications

Author	Pubmed ID	Journal	Application
Bingling Dai	27460008	Oncol Rep	
Anja Blaque	25750616	Front Neuroanat	IF
Weina Ma	28190470	Phytomedicine	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

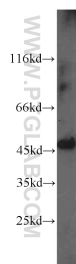
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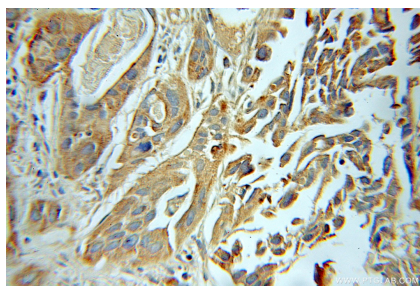
E: proteintech@ptglab.com
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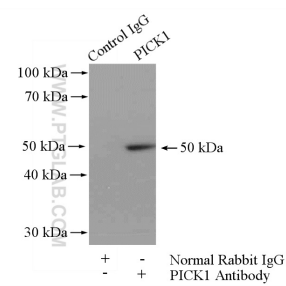
Selected Validation Data



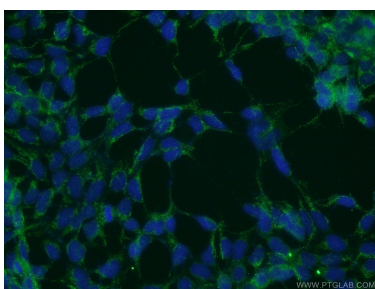
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10983-2-AP (PICK1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 10983-2-AP (PICK1 antibody) at dilution of 1:50 (under 25x lens).



IP Result of anti-PICK1 (IP:10983-2-AP, 4ug; Detection:10983-2-AP 1:500) with mouse brain tissue lysate 4400ug.



Immunofluorescent analysis of HEK-293 cells using 10983-2-AP (PICK1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).