

For Research Use Only

# PICK1 Polyclonal antibody

Catalog Number: 10983-2-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

10983-2-AP

### Concentration:

600 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1443

### GenBank Accession Number:

BC017561

### GeneID (NCBI):

9463

### UNIPROT ID:

Q9NRD5

### Full Name:

protein interacting with PRKCA 1

### Calculated MW:

47 kDa

### Observed MW:

50-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:5000

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

IHC: 1:50-1:500

IF/ICC: 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### 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: LNCaP cells, human brain tissue, SH-SY5Y cells, mouse brain tissue, rat brain tissue

IP: mouse brain tissue,

IHC: human stomach cancer tissue,

IF/ICC: 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  $\alpha$ -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- $\beta$  signaling.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bingling Dai	27460008	Oncol Rep	
Lixiao Zhou	35381522	Environ Int	WB
Qian Dou	34307672	Biomed Res Int	IHC, IF

## 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:

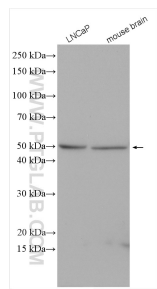
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

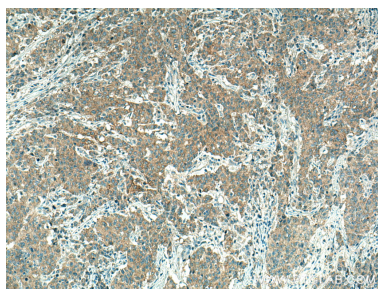
W: [ptgcn.com](http://ptgcn.com)

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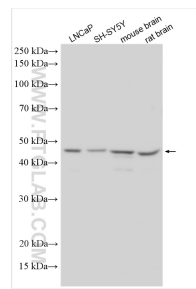
Selected Validation Data



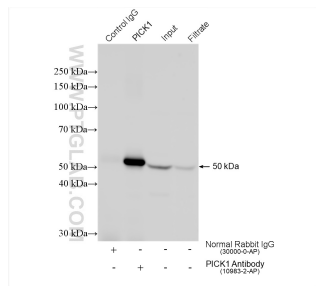
Various lysates were subjected to SDS PAGE followed by western blot with 10983-2-AP (PICK1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



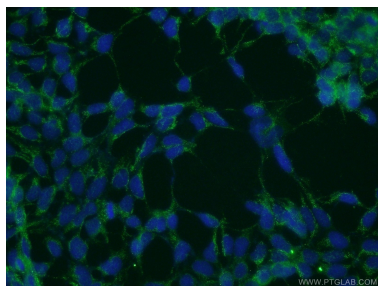
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 10983-2-AP (PICK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 10983-2-AP (PICK1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



IP result of anti-PICK1 (IP:10983-2-AP, 4ug; Detection:10983-2-AP 1:2500) with mouse brain tissue lysate 1280 ug.



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