

For Research Use Only

PTK7 Polyclonal antibody

Catalog Number: 17799-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

17799-1-AP

Size:

750 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12004

GenBank Accession Number:

BC071557

GeneID (NCBI):

5754

UNIPROT ID:

Q13308

Full Name:

PTK7 protein tyrosine kinase 7

Calculated MW:

1070 aa, 118 kDa

Observed MW:

140-150 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IF, IHC

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 : PC-12 cells, Jurkat cells, A431 cells

IP : Jurkat cells,

IHC : human colon cancer tissue,

Background Information

Protein tyrosine kinase 7 (PTK7), also known as colon carcinoma kinase 4 (CCK4), is an atypical receptor tyrosine kinase that consists of an extracellular domain with seven immunoglobulin-like domains, a transmembrane domain, and a catalytically defective tyrosine kinase domain (PMID: 29867084). It is implicated in planar cell polarity and in the Wnt canonical and non-canonical pathways (PMID: 24618420). Overexpression of PTK7 has been reported in a variety of tumors, such as cervical cancer, colon cancer, lung adenocarcinoma, acute myelogenous leukemia, and gastric cancer (PMID: 30944666).

Notable Publications

Author	Pubmed ID	Journal	Application
Binbin Yu	30348980	Cell Death Dis	WB,IHC,IF
Ren-Chao Zou	31730575	Med Sci Monit	WB
Zhigang Xie	35649377	Cell Rep	IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

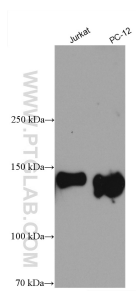
T: 4006900926

E: Proteintech-CN@ptglab.com

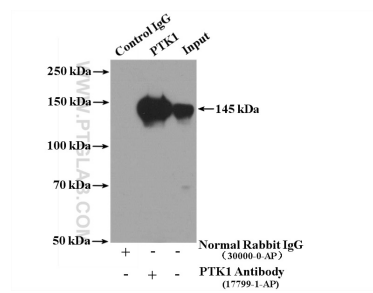
W: ptgcn.com

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

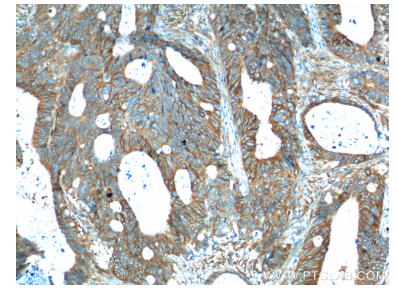
Selected Validation Data



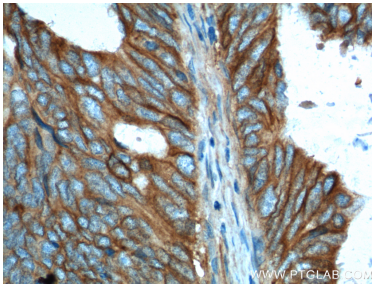
Various lysates were subjected to SDS PAGE followed by western blot with 17799-1-AP (PTK7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-PTK7 (IP:17799-1-AP, 4ug; Detection:17799-1-AP 1:300) with Jurkat cells lysate 3400ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17799-1-AP (PTK7 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17799-1-AP (PTK7 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).