

For Research Use Only

PTK7/CCK4 Polyclonal antibody

Catalog Number: 17799-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

17799-1-AP

Size:

750 ug/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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:800-1:3200

Applications

Tested Applications:

WB, IHC, IP, 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: PC-12 cells, A431 cells, Jurkat cells, PaTu 8988s 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
Ren-Chao Zou	31730575	Med Sci Monit	WB
Zhigang Xie	35649377	Cell Rep	IF
W. D. Mojica	29551804	Mod Pathol	IHC

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:

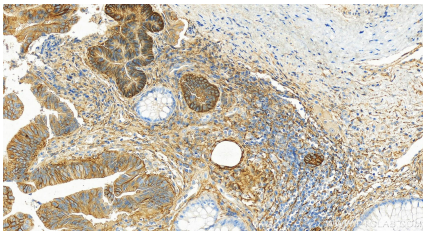
T: 4006900926

E: Proteintech-CN@ptglab.com

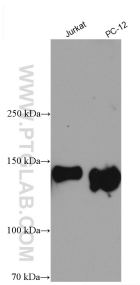
W: ptgcn.com

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

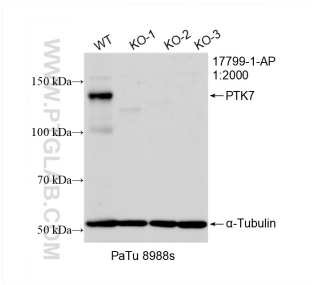
Selected Validation Data



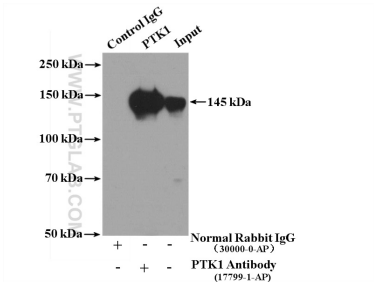
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17799-1-AP (PTK7 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



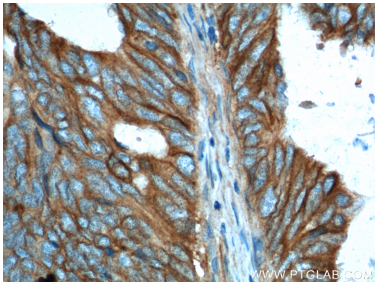
Various lysates were subjected to SDS PAGE followed by western blot with 17799-1-AP (PTK7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of PTK7 antibody (17799-1-AP; 1:2000; room temperature for 1.5 hours) with wild-type and PTK7 knockout PaTu 8988s cells.



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 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).