For Research Use Only

PTK7/CCK4 Polyclonal antibody

Catalog Number:17799-1-AP Featured Product 9 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
17799-1-AP

Size:
150ul , Concentration: 750 ug/ml by Nanodrop;

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

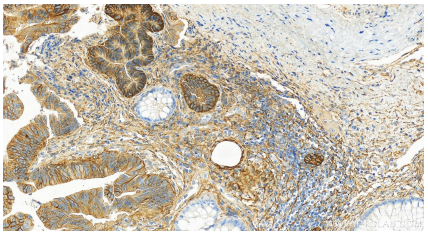
Storage

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

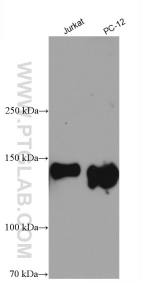
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

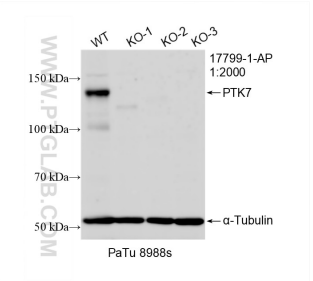
Selected Validation Data



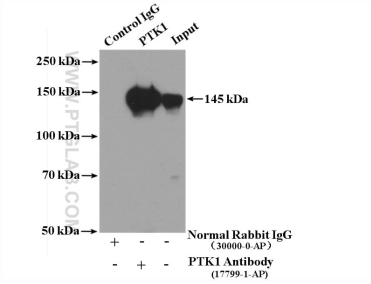
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17799-1-AP (PTK7 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



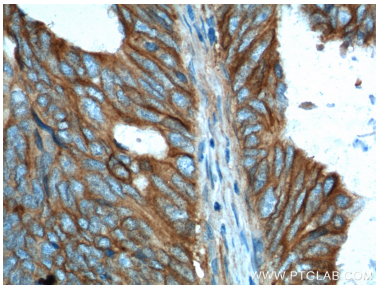
Various lysates were subjected to SDS PAGE followed by western blot with 17799-1-AP (PTK7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).