

For Research Use Only

PTK7 Polyclonal antibody

Catalog Number: 17799-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number: 17799-1-AP	GenBank Accession Number: BC071557	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 750 µg/ml by Nanodrop and 360 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5754	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	Full Name: PTK7 protein tyrosine kinase 7	
Isotype: IgG	Calculated MW: 1070 aa, 118 kDa	
Immunogen Catalog Number: AG12004	Observed MW: 140-150 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : PC-12 cells, Jurkat cells, A431 cells IP : Jurkat cells, IHC : human colon cancer tissue,
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	

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

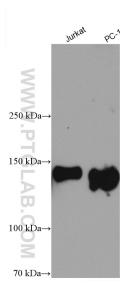
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

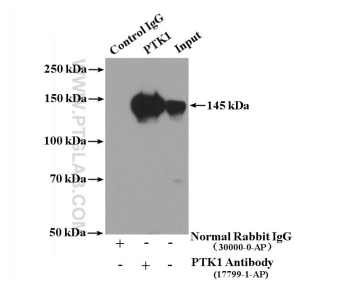
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

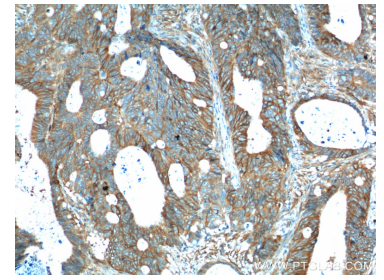
Selected Validation Data



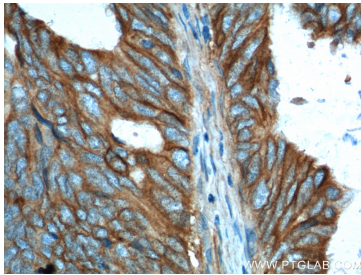
Various lysates were subjected to SDS PAGE followed by western blot with 17799-1-AP (PTK7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).