

For Research Use Only

# TBK1 Polyclonal antibody

Catalog Number: 28397-1-AP

Featured Product

65 Publications



## Basic Information

### Catalog Number:

28397-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG28894

### GenBank Accession Number:

BC034950

### GeneID (NCBI):

29110

### UNIPROT ID:

Q9UHD2

### Full Name:

TANK-binding kinase 1

### Observed MW:

84 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IP

### Species Specificity:

human

### Cited Species:

human, mouse, rat, pig, monkey, chicken, bovine, hamster

**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:** HT-1080 cells, HCT 116 cells, HeLa cells, HepG2 cells, U2OS cells

**IHC:** human stomach cancer tissue, human liver cancer tissue

**IF/ICC:** MCF-7 cells,

## Background Information

TBK1, also named as tumor necrosis factor (TNF) receptor-associated factor NF- $\kappa$ B activator (TANK)-binding kinase 1 (TBK1), NF- $\kappa$ B-activating kinase (NAK), T2K, is a multimeric kinase that modulates inflammation and autophagy. It is a ubiquitously expressed serine-threonine kinase belonging to the 'noncanonical I $\kappa$ B kinases' (IKKs) recognized for its critical role in regulating type I IFN production (PMID: 27211305). And TBK1 is an important player in yet another critical cellular function, autophagy. This antibody is specific for TBK1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaohua He	36147630	Biomed Res Int	WB
Yinghua Zhao	34471099	Signal Transduct Target Ther	WB
Qingxia Gao	36314820	J Virol	WB

## 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

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

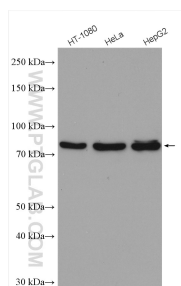
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

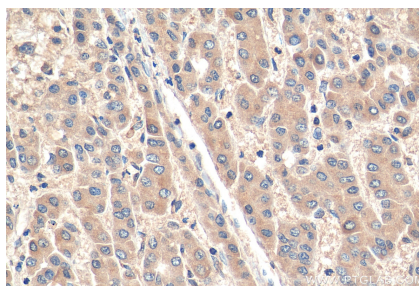
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

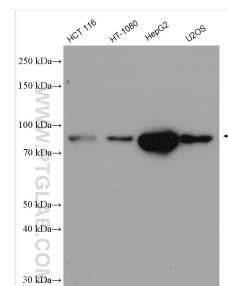
## Selected Validation Data



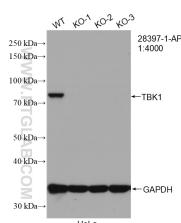
Various lysates were subjected to SDS PAGE followed by western blot with 28397-1-AP (TBK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



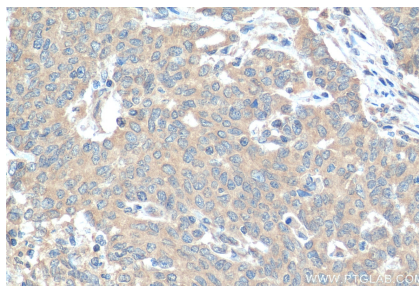
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 28397-1-AP (TBK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



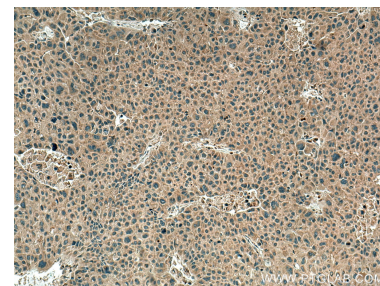
Various lysates were subjected to SDS PAGE followed by western blot with 28397-1-AP (TBK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



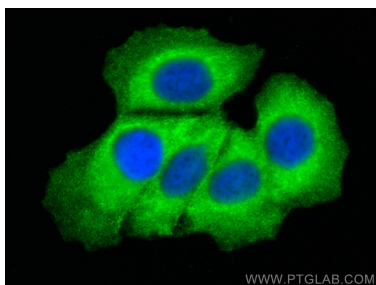
WB result of TBK1 antibody (28397-1-AP; 1:4000; room temperature for 1.5 hours) with wild-type and TBK1 knockout HeLa cells.



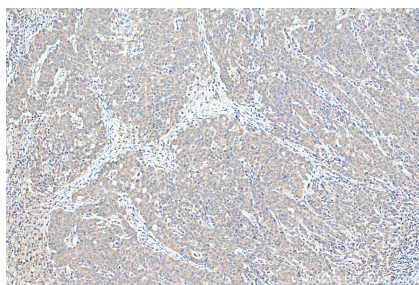
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 28397-1-AP (TBK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 28397-1-AP (TBK1 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using TBK1 antibody (28397-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 28397-1-AP (TBK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).