

For Research Use Only

# ACK1 Polyclonal antibody

Catalog Number: 14304-1-AP

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 14304-1-AP	<b>GenBank Accession Number:</b> BC028164	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 133 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10188	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> tyrosine kinase, non-receptor, 2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 115 kDa	
<b>Immunogen Catalog Number:</b> AG5419	<b>Observed MW:</b> 70 kDa	

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Cited Applications:**  
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**

**Positive Controls:**

WB : SH-SY5Y cells, HepG2 cells, HT-1080 cells, A431 cells, mouse brain tissue, HeLa cells, A549 cells

IHC : human breast cancer tissue,

## Background Information

TNK2, also named ACK1, belongs to the protein kinase superfamily and Tyr protein kinase family. It is a non-receptor tyrosine-protein and serine/threonine-protein kinase that is implicated in cell spreading and migration, cell survival, and cell proliferation. TNK2 transduces extracellular signals to cytosolic and nuclear effectors. It is a downstream effector of CDC42 which mediates CDC42-dependent cell migration via phosphorylation of BCAR1. TNK2 confers metastatic properties on cancer cells by negatively regulating tumor suppressors such as WWOX and positively regulating pro-survival factors such as AKT1 and AR. The 60-70kd band is the isoform 2 of TNK2. Isoform 1 and 3 is about 120-125kd.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lei He	30702192	Cell Microbiol	WB
G F Sengül	37926156	Biochim Biophys Acta Mol Cell Res	WB

## 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

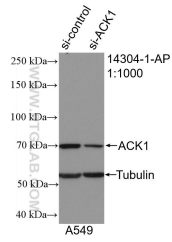
For technical support and original validation data for this product please contact:

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.

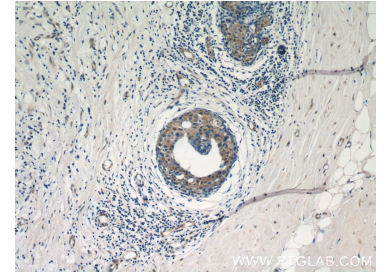
## Selected Validation Data



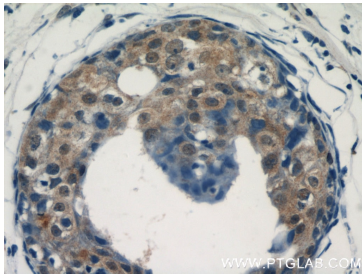
WB result of ACK1 antibody (14304-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACK1 transfected A549 cells.



SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 14304-1-AP (ACK1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 14304-1-AP (ACK1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer using 14304-1-AP (ACK1 antibody) at dilution of 1:50 (under 40x lens).