For Research Use Only

ACK1 Polyclonal antibody

Catalog Number:14304-1-AP Featured Product 2 Publications

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Basic Information

Catalog Number:
14304-1-AP

Size:
150ul , Concentration: 133 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5419

GenBank Accession Number:
BC028164

GeneID (NCBI):
10188

UNIPROT ID:
Q07912

Full Name:
tyrosine kinase, non-receptor, 2

Calculated MW:
115 kDa

Observed MW:
70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:20-1:200

Applications

Tested Applications:
WB, IHC, 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

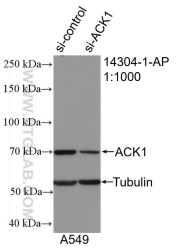
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

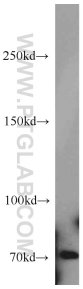
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

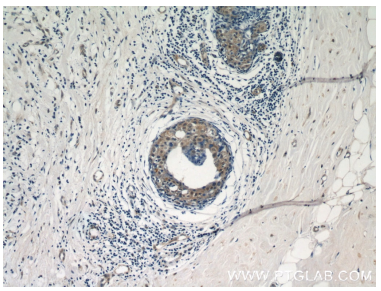
Selected Validation Data



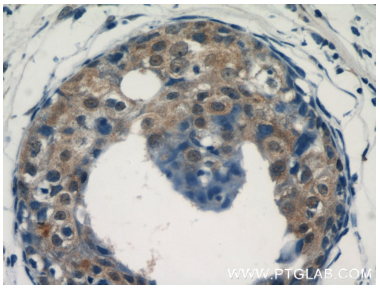
WB result of ACK1 antibody (14304-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACK1 transfected A549 cells.



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).