

Product Name: ACK (phospho Tyr284) Rabbit Polyclonal Antibody
Catalog #: APRab04201

Summary

Production Name	ACK (phospho Tyr284) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	ELISA,IF,IHC,WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	TNK2
Alternative Names	TNK2; ACK1; Activated CDC42 kinase 1; ACK-1; Tyrosine kinase non-receptor protein 2
Gene ID	10188.0
SwissProt ID	Q07912.The antiserum was produced against synthesized peptide derived from human ACK1 around the phosphorylation site of Tyr284. AA range:250-299

Application

Dilution Ratio	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. IHC 1:100 - 1:300.
Molecular Weight	120kD

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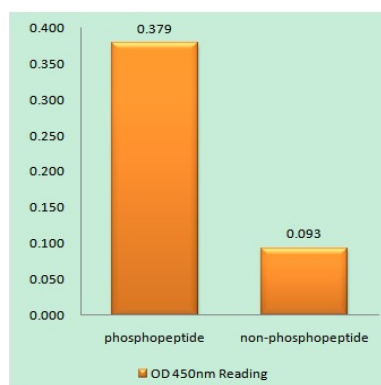


Background

This gene encodes a tyrosine kinase that binds Cdc42Hs in its GTP-bound form and inhibits both the intrinsic and GTPase-activating protein (GAP)-stimulated GTPase activity of Cdc42Hs. This binding is mediated by a unique sequence of 47 amino acids C-terminal to an SH3 domain. The protein may be involved in a regulatory mechanism that sustains the GTP-bound active form of Cdc42Hs and which is directly linked to a tyrosine phosphorylation signal transduction pathway. Several alternatively spliced transcript variants have been identified from this gene, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Magnesium.,enzyme regulation:The SH3 domain appears to play an autoinhibitory role.,function:Downstream effector of CDC42 which mediates CDC42-dependent cell migration via phosphorylation of BCAR1. Binds to both poly- and mono-ubiquitin and regulates ligand-induced degradation of EGFR. Participates in clathrin-mediated endocytosis. May be involved both in adult synaptic function and plasticity and in brain development.,sequence caution:Unlikely isoform. Aberrant splice sites.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Contains 1 CRIB domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH3 domain.,subunit:Interacts with CDC42. Interacts with activated CSPG4.,

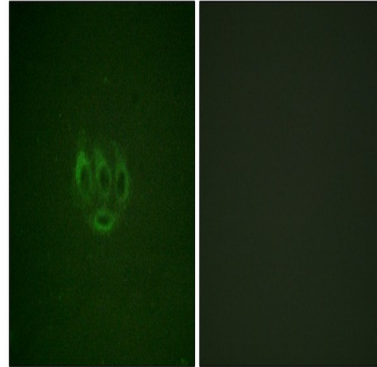
Research Area

Image Data

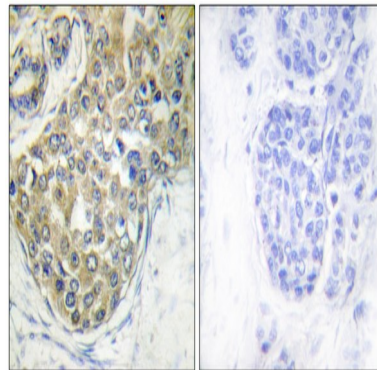


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using ACK1 (Phospho-Tyr284) Antibody

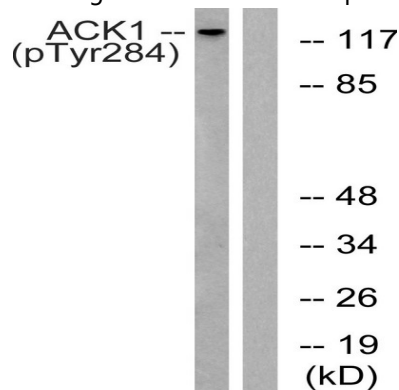
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Immunofluorescence analysis of A549 cells, using ACK1 (Phospho-Tyr284) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ACK1 (Phospho-Tyr284) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with EGF 200ng/ml 30', using ACK1 (Phospho-Tyr284) Antibody. The lane on the right is blocked with the phospho peptide.

Note

For research use only.