

**AP55705PU-N****Polyclonal Antibody to TNK2 / ACK1 pTyr284 - Aff - Purified**

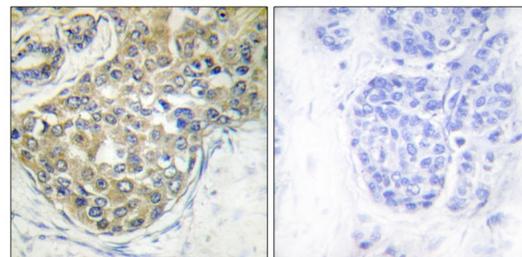
<b>Alternate names:</b>	Activated CDC42 kinase 1
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	Non-receptor tyrosine-protein and serine/threonine-protein kinase that is implicated in cell spreading and migration, cell survival, cell growth and proliferation. Transduces extracellular signals to cytosolic and nuclear effectors. Phosphorylates AKT1, AR, MCF2, WASL and WWOX. Implicated in trafficking and clathrin-mediated endocytosis through binding to epidermal growth factor receptor (EGFR) and clathrin. Binds to both poly- and mono-ubiquitin and regulates ligand-induced degradation of EGFR, thereby contributing to the accumulation of EGFR at the limiting membrane of early endosomes.
<b>Uniprot ID:</b>	<a href="#">Q07912</a>
<b>NCBI:</b>	<a href="#">NP_001010938.1</a>
<b>GeneID:</b>	<a href="#">10188</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Peptide sequence around phosphorylation site of tyrosine 284 (D-H-Y(p)-V-M) derived from Human ACK1 (KLH-conjugated)
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Affinity chromatography using epitope-specific peptide <b>Buffer System:</b> Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
<b>Applications:</b>	Western blot: 1:500~1:1000. Immunohistochemistry on paraffin sections: 1:50~1:100. Immunofluorescence: 1:100~1:200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Molecular Weight:</b>	120 kDa
<b>Specificity:</b>	The antibody detects endogenous levels of ACK1 only when phosphorylated at tyrosine 284.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, Mouse
<b>Storage:</b>	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Manser E, Leung T, Salihuddin H, Tan L, Lim L. A non-receptor tyrosine kinase that inhibits the GTPase activity of p21cdc42. Nature. 1993 May 27;363(6427):364-7. PubMed PMID: 8497321. 2. Ota T, Suzuki Y, Nishikawa T, Otsuki T, Sugiyama T, Irie R, et al. Complete sequencing and characterization of 21,243 full-length human cDNAs. Nat Genet. 2004

Jan;36(1):40-5. Epub 2003 Dec 21. PubMed PMID: 14702039.

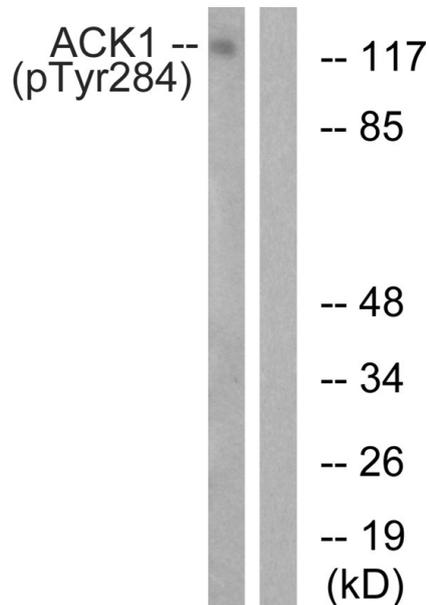
3. Eisenmann KM, McCarthy JB, Simpson MA, Keely PJ, Guan JL, Tachibana K, et al. Melanoma chondroitin sulphate proteoglycan regulates cell spreading through Cdc42, Ack-1 and p130cas. Nat Cell Biol. 1999 Dec;1(8):507-13. PubMed PMID: 10587647.

**Pictures:**

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ACK1 (Phospho-Tyr284) antibody AP55705PU-N (left) or the same antibody preincubated with blocking peptide (right).



Western blot analysis of extracts from HepG2 cells treated with EGF using ACK1 (Phospho-Tyr284) Antibody AP55705PU-N. The lane on the right is treated with the antigen-specific peptide.



Immunofluorescence staining of methanol-fixed A549 cells using ACK1 (Phospho-Tyr284) Antibody AP55705PU-N.

