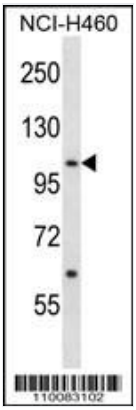
ACK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACK1, Polyclonal Antibody
Full Product Name	ACK1, ID (Y284) (TNK2, ACK1, Activated CDC42 kinase 1, Tyrosine kinase non-receptor protein 2) (FITC)
Product Gene Name	anti-ACK1 antibody
Product Synonym Gene Name	TNK2
Product Synonym Names	TNK2; ACK1; Activated CDC42 kinase 1; Tyrosine kinase non-receptor protein 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	119,349 Da
OMIM	606994
3D Structure	ModBase 3D Structure for Q07912
Immunogen	ACK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-300 amino acids from the Central region of human ACK1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ACK1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ACK1 antibody	Western Blot (WB), FLISA
Application Notes for anti-ACK1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ACK1 antibody	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.

Product References and Citations for anti-ACK1 antibody	Mahajan, K., et al. J. Cell. Physiol. 224(2):327-333(2010). Chua, B.T., et al. Mol Oncol 4(4):323-334(2010). Prieto-Echague, V., et al. J. Biol. Chem. 285(14):10605-10615(2010). Lin, Q., et al. Mol. Cell. Biol. 30(6):1541-1554(2010). Pao-Chun, L., et al. J. Biol. Chem. 284(50):34954-34963(2009).
Other Notes	Small volumes of anti-ACK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACK1 purchase	MBS6270939 is an antibody targeting ACK1. Also known as ACK1, ID (Y284) (TNK2, ACK1, Activated CDC42 kinase 1, Tyrosine kinase non-receptor protein 2) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ACK1 antibody
ACK1 Antibody (Center Y284) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the ACK1 antibody detected the ACK1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACK1. It may not necessarily be applicable to this product.

NCBI GI #	56549666
NCBI GeneID	10188
NCBI Accession #	NP_005772.3
NCBI Related Accession #	NP_001010938.1
UniProt Primary Accession #	Q07912
UniProt Secondary Accession #	Q6ZMQ0; Q8N6U7; Q96H59
UniProt Related Accession #	Q07912
GenBank Nucleotide #	NM_005781.4
NCBI Official Full Name	activated CDC42 kinase 1 isoform 1
NCBI Official Synonym Full Names	tyrosine kinase, non-receptor, 2
NCBI Official Symbol	TNK2
NCBI Official Synonym Symbols	ACK; ACK1; ACK-1; p21cdc42Hs
UniProt Protein Name	Activated CDC42 kinase 1
UniProt Synonym Protein Names	Tyrosine kinase non-receptor protein 2
Protein Family	Activator of C kinase protein
UniProt Gene Name	TNK2
UniProt Synonym Gene Names	ACK1; ACK-1
UniProt Entry Name	ACK1_HUMAN

NCBI Protein Information	activated CDC42 kinase 1; activated p21cdc42Hs kinase; activated Cdc42-associated kinase 1; tyrosine kinase non-receptor protein 2
UniProt Comments for ACK1	Ack: a tyrosine kinase that binds Cdc42 in its GTP-bound form and inhibits both the intrinsic and GTPase-activating protein (GAP)-stimulated GTPase activity of Cdc42. This binding is mediated by a unique sequence of 47 amino acids C-terminal to an SH3 domain. May be involved in a regulatory mechanism that sustains the GTP-bound active form of Cdc42 and which is directly linked to a tyrosine phosphorylation signal transduction pathway. Amplification in primary tumors correlates with metastatic potential . Two differentially spliced isoforms have been described. Protein type: Protein kinase, TK; EC 2.7.11.1; Kinase, protein; EC 2.7.10.2; Protein kinase, tyrosine (non-receptor); TK group; Ack family Chromosomal Location of Human Ortholog: 3q29 Cellular Component: extrinsic to internal side of plasma membrane; adherens junction; growth cone; cytoplasmic vesicle membrane; cell soma; membrane; clathrin-coated vesicle; axon; cytoplasm; dendrite; plasma membrane; coated pit; nucleus; endosome Molecular Function: protein serine/threonine kinase activity; protein binding; metal ion binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; protein serine/threonine/tyrosine kinase activity; WW domain binding; ATP binding; GTPase inhibitor activity; hormone receptor binding; epidermal growth factor receptor binding Biological Process: positive regulation of peptidyl-tyrosine phosphorylation; cell migration; cell surface receptor linked signal transduction; small GTPase mediated signal transduction; negative regulation of catalytic activity; innate immune response; endocytosis; cell differentiation; phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of cell proliferation
Research Articles on ACK1	**1.** A novel role for Ack1 in diverting activated EGFR into a non-canonical degradative pathway.
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