

Recombinant Human TNK2 Protein (G110-W476), GST tagged

Cat. No. TNK2-0756H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST-TEV-GG-ACK(TNK2) (G110-W476) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	G110-W476
Description	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. Downstream effector of CDC42 which mediates CDC42-dependent cell migration via phosphorylation of BCAR1. May be involved both in adult synaptic function and plasticity and in brain development. Activates AKT1 by phosphorylating it on 'Tyr-176'. Phosphorylates AR on 'Tyr-267' and 'Tyr-363' thereby promoting its recruitment to androgen-responsive enhancers (AREs). Phosphorylates WWOX on 'Tyr-287'. Phosphorylates MCF2, thereby enhancing its activity as a guanine nucleotide exchange factor (GEF) toward Rho family proteins. Contributes to the control of AXL receptor levels. Confers metastatic properties on cancer cells and

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promotes tumor growth by negatively regulating tumor suppressor such as WWOX and positively regulating pro-survival factors such as AKT1 and AR. Phosphorylates WASP.

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	80%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 150mM NaCl, 5% glycerol, 5mM DTT, 0.1M Trehalose.
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	TNK2 tyrosine kinase, non-receptor, 2 [Homo sapiens (human)]
Official Symbol	TNK2
Synonyms	TNK2; tyrosine kinase, non-receptor, 2; activated CDC42 kinase 1; ACK; ACK1; activated Cdc42 associated kinase 1; p21cdc42Hs; activated p21cdc42Hs kinase; activated Cdc42-associated kinase 1; tyrosine kinase non-receptor protein 2; ACK-1; FLJ44758; FLJ45547;

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Gene ID	10188
mRNA Refseq	NM_001010938
Protein Refseq	NP_001010938
MIM	606994
UniProt ID	Q07912

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