

Datasheet for ABIN7317144

**TNK2 Protein (GST tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	TNK2
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNK2 protein is labelled with GST tag.

## Product Details

Purpose:	Recombinant Human ACK1/TNK2 Protein (GST Tag)
Sequence:	Gly 110-Trp 476
Characteristics:	A DNA sequence encoding the amino acid (Gly 110-Trp 476) of human ACK1 isoform 1 (NP_005772.3) was expressed with the GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	TNK2
Alternative Name:	ACK1/TNK2 ( <a href="#">TNK2 Products</a> )
Background:	Background: ACK1 (also known as ACK, TNK2, or activated Cdc42 kinase) is a structurally unique non-receptor tyrosine kinase that is expressed in diverse cell types. This downstream effector of CDC42 which mediates CDC42-dependent cell migration via phosphorylation of

## Target Details

BCAR1. The ACK1 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. ACK1 integrates signals from plethora of ligand-activated receptor tyrosine kinases (RTKs), for example, MERTK, EGFR, HER2 and PDGFR to initiate intracellular signaling cascades. It binds to both poly- and mono-ubiquitin and regulates ligand-induced degradation of EGFR. ACK1 transduces extracellular signals to cytosolic and nuclear effectors such as the protein kinase AKT/PKB and androgen receptor (AR), to promote cell survival and growth. ACK1 participates in tumorigenesis, cell survival, and migration. Gene amplification and overexpression of ACK1 were found in many cancer types such as those of the lung and prostate. Recently, four somatic missense mutations of ACK1, which occur in the N-terminal region, the C-lobe of the kinase domain, and the SH3 domain, were identified in cancer tissue samples.

Synonym: ACK,ACK-1,ACK1,p21cdc42Hs

Molecular Weight: 68 kDa

NCBI Accession: [NP\\_005772](#)

## Application Details

Restrictions: For Research Use only

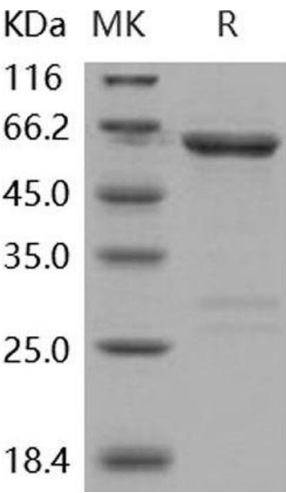
## Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol, 0.5 mM EDTA, 0.5 mM PMSF, 0.5 mM TCEP

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



**Western Blotting**

**Image 1.**