

Datasheet for ABIN7317121
CHEK2 Protein (GST tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	CHEK2
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHEK2 protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human CHK2/CHEK2 Protein (GST Tag)
Sequence:	Met 1-Leu543
Characteristics:	A DNA sequence encoding the human CHEK2 (NP_009125.1) (Met1-Leu543) was expressed with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CHEK2
Alternative Name:	CHK2/CHEK2 (CHEK2 Products)
Background:	Background: In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by CHEK2 gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated

Target Details

protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated, the encoded CHEK2 protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype usually associated with inherited mutations in TP53. Also, mutations in CHEK2s gene are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors. This nuclear protein is a member of the CDS1 subfamily of serine/threonine protein kinases. Several transcript variants encoding different isoforms have been found for this gene. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

Synonym: CDS1;CHK2;hCds1;HuCds1;LFS2;PP1425;RAD53

Molecular Weight: 88.1 kDa

NCBI Accession: [NP_009125](#)

Pathways: [p53 Signaling](#), [Apoptosis](#), [Cell Division Cycle](#)

Application Details

Restrictions: For Research Use only

Handling

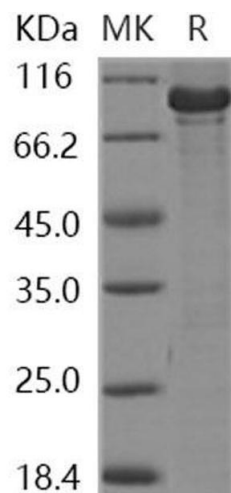
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 50 mM Tris, 150 mM NaCl, 25 %glycerol, pH 7.5, 0.1 mM EDTA, 0.5 mM TCEP

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.