

Datasheet for ABIN7320011

CHEK2 Protein (GST tag,His tag)[Go to Product page](#)**1** Image

Overview

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

Product Details

Purpose:	Recombinant Mouse CHK2/CHEK2 Protein (His & GST Tag)(Active)
Sequence:	Mey 1-Leu 546
Characteristics:	A DNA sequence encoding the mouse CHEK2 (Q9Z265) (Mey 1-Leu 546) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Kinase activity untested

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

Target Details

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 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;HUCDS1;Rad53

Molecular Weight: 89 kDa

UniProt: [Q9Z265](#)

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

Application Details

Restrictions: For Research Use only

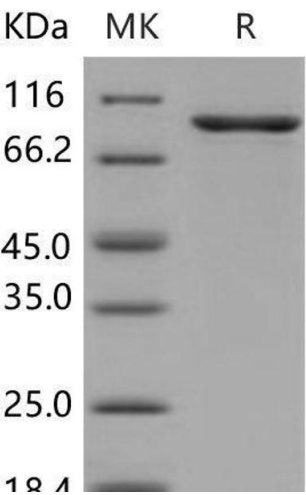
Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 8.0

Storage: -20 °C

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



Western Blotting

Image 1.