

# Recombinant Human CHEK1 Protein, GST-Tagged

**Cat. No.** CHEK1-1221H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CHEK1 full-length ORF (AAH04202, 1 a.a. - 476 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | The protein encoded by this gene belongs to the Ser/Thr protein kinase family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2011] |
| <b>Molecular Mass</b>   | 77.88 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEA VAVKIVDMKRAVDCPENIKKEI<br>CINKMLNHENVVKFYGHRREGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRFFHQ<br>LMAGVVYLHGIGITHRDIKPENLLLDERDNLKISDFGLATVFRYNNRERLLNKMCGTL<br>PYVAPELLKRREFHAEPVDVWSCGIVLTAMLGELPWDQPSDSCQEYSDWKEKKT<br>YLNPWKKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTSGGVS<br>ESPSGFSKHIQSNLDFSPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKLVQG                                                                                                                                                                                                                                                                                        |

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ISFSQPTCPDHMLLNSQLLGTGSSQNPWQRLVKRMTRFFTKLDADKPYQCLKETR  
EKLGYQWKKSCMNQVTISTTDRNNKLIFKVNLLMDDKILVDFRLSKGDGLEFKRH  
FLKIKGKLIDIVSSQKVWLPAT

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

CHEK1 checkpoint kinase 1 [ Homo sapiens ]

**Official Symbol**

CHEK1

**Synonyms**

CHEK1; checkpoint kinase 1; CHK1 (checkpoint, S.pombe) homolog, CHK1 checkpoint homolog (S. pombe); serine/threonine-protein kinase Chk1; CHK1; Chk1-S; checkpoint kinase-1; CHK1 checkpoint homolog; cell cycle checkpoint kinase; Checkpoint, S. pombe, homolog of, 1;

**Gene ID**

1111

**mRNA Refseq**

NM\_001114121

**Protein Refseq**

NP\_001107593

**MIM**

603078

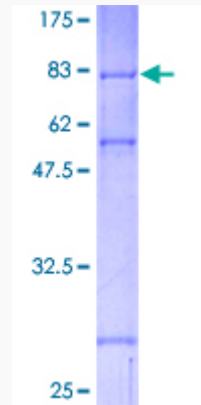
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UniProt ID

O14757

Quality Control  
Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

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