

Recombinant Full Length Human CHEK1 Protein, GST-tagged

Cat. No. CHEK1-3188HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CHEK1 full-length ORF (AAH04202, 1 a.a. - 476 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	476 amino acids
Description	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]
Molecular Mass	77.88 kDa
AA Sequence	MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEI CINKMLNHENVVKFYGHRREGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRFFHQ LMAGVVYLHGIGITHRDIKPENLLLDERDNLKISDFGLATVFRYNNRERLLNKMCGTL PYVAPPELLKRREFHAEPVDVWSCGIVLTAMLGELPWDQPSDSCQEYSDWKEKKT YLNPWKKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTSGGVS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



ESPSGFSKHIQSNLDFSPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKLVQG
ISFSQPTCPDHMLLNSQLLGTGPGSSQNPWQRLVKRMTRFFTKLDADKPYQCLKETR
EKLG YQWKKSCMNQVTISTTDRRNNKLIFKVNLLMDDKILVDFRLSKG DGLFKRH
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
------------	--------

UniProt ID	O14757
-------------------	--------

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA