

Recombinant Human CHEK1

Cat. No. CHEK1-26454TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 363/477 of Human Chk1 expressed in E. coli.
Species	Human
Source	E.coli
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.
Form	Liquid
Purity	Purified via His tag
Storage buffer	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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GENE INFORMATION

Gene Name	CHEK1 checkpoint kinase 1 [Homo sapiens]
Official Symbol	CHEK1
Synonyms	CHEK1; checkpoint kinase 1; CHK1 (checkpoint, S.pombe) homolog; serine/threonine-protein kinase Chk1; CHK1;
Gene ID	1111
mRNA Refseq	NM_001114121
Protein Refseq	NP_001107593
MIM	603078
Uniprot ID	O14757
Chromosome Location	11q24.2
Pathway	Activation of ATR in response to replication stress, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem;
Function	ATP binding; histone kinase activity (H3-T11 specific); nucleotide binding; protein binding; protein serine/threonine kinase activity;

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