

Active Recombinant Human CHEK1 Protein, GST-His-Tagged

Cat. No. CHEK1-1220H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CHEK1 (NM_001274.2, 1 a.a. - 476 a.a.) full-length recombinant protein with GST-His tag expressed in Sf9 cells.
Species	Human
Source	Insect Cells
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]
Form	Liquid
Bio-activity	20 pmol/μg x min
Molecular Mass	83.93 kDa
Applications	Functional Study SDS-PAGE

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Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing
Concentration	0.109 µg/µL
Storage Buffer	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol)

GENE INFORMATION

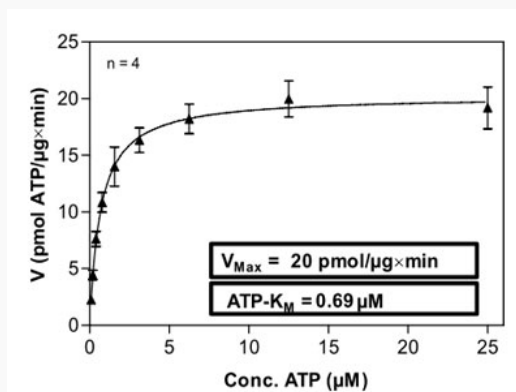
Gene Name	CHEK1 checkpoint kinase 1 [Homo sapiens]
Official Symbol	CHEK1
Synonyms	CHEK1; checkpoint kinase 1; CHK1 (checkpoint, S.pombe) homolog, CHK1 checkpoint homolog (S. pombe); serine/threonine-protein kinase Chk1; CHK1; Chk1-S; checkpoint kinase-1; CHK1 checkpoint homolog; cell cycle checkpoint kinase; Checkpoint, S. pombe, homolog of, 1;
Gene ID	1111
mRNA Refseq	NM_001114121
Protein Refseq	NP_001107593
MIM	603078
UniProt ID	O14757

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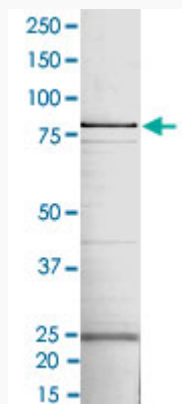
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Result of activity analysis



Quality Control Testing



2 μg/lane SDS-PAGE Stained with Coomassie Blue

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