



## CHEK1 (phospho S317) peptide (DAG-P0292)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen 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>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">CHEK1 checkpoint kinase 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CHEK1
<b>Synonyms</b>	CHEK1; checkpoint kinase 1; CHK1; serine/threonine-protein kinase Chk1; Chk1-S; checkpoint kinase-1; CHK1 checkpoint homolog; cell cycle checkpoint kinase; Checkpoint, S. pombe, homolog of, 1;
<b>Entrez Gene ID</b>	<a href="#">1111</a>



<b>mRNA Refseq</b>	<a href="#">NM_001114121.2</a>
<b>Protein Refseq</b>	<a href="#">NP_001107593.1</a>
<b>UniProt ID</b>	B4DT73
<b>Chromosome Location</b>	11q24.2
<b>Pathway</b>	Activation of ATR in response to replication stress, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chk1/Chk2(Cds1) mediated inactivation of Cyclin B:Cdk1 complex, organism-specific biosystem; Circadian rhythm pathway, organism-specific biosystem; DNA damage response, organism-specific biosystem; G1/S DNA Da
<b>Function</b>	ATP binding; histone kinase activity (H3-T11 specific); protein binding; protein serine/threonine kinase activity;