

## Polyclonal Antibody to CHK1 pSer317 - Aff - Purified

<b>Alternate names:</b>	CHEK-1, CHEK1, CHK1 checkpoint homolog, Serine/threonine-protein kinase Chk1
<b>Catalog No.:</b>	AP19048PU-N
<b>Quantity:</b>	0.1 ml
<b>Concentration:</b>	0.86 mg/ml
<b>Background:</b>	Cell cycle events are regulated by the sequential activation and deactivation of cyclin dependent kinases (Cdks) and by proteolysis of cyclins. Chk1 and Chk2 are involved in these processes as regulators of Cdks. Chk1 and Chk2 both function as essential components in the G2 DNA damage checkpoint by phosphorylating Cdc25C in response to DNA damage. Phosphorylation inhibits Cdc25C activity, thereby blocking mitosis. Cdc25A, Cdc25B and Cdc25C protein tyrosine phosphatases function as mitotic activators by dephosphorylating Cdc2 p34 on regulatory tyrosine residues. It has also been shown that Chk1 can phosphorylate Wee 1 in vitro, providing evidence that the hyperphosphorylated form of Wee 1, seen in cells delayed by Chk1 overexpression, is due to phosphorylation by Chk1. Chk1 is phosphorylated on Serine 345 (S345) in response to UV, IR and hydroxyurea (HU). Chk1 plays an essential role in the mammalian DNA damage checkpoint.
<b>Uniprot ID:</b>	<a href="#">O14757</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>GeneID:</b>	<a href="#">1111</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Synthetic peptide contain a sequence corresponding to a region within amino acids 314 and 320 of Chk1 phopho-Ser317.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Antigen-Affinity Chromatography. <b>Buffer System:</b> 1xPBS, 1% BSA, 20% Glycerol (pH7) containing 0.01% Thimerosal as preservative.
<b>Applications:</b>	<b>Western blotting:</b> 1/500-1/3000. <i>Positive Controls:</i> 293T, A431, H1299, HeLa, HepG2, Molt-4, Raji. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Recognizes CHK1 pSer317. Cellular Localization: Nucleus/Cytoplasm.
<b>Species Reactivity:</b>	<b>Tested:</b> Human.
<b>Add. Information:</b>	<b>Predicted Molecular Weight:</b> 54 kDa

**Storage:** Store the antibody undiluted (in aliquots) at -20°C.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**Pictures:** AP19048PU-N CHK1 antibody (pSer317) staining of H1299 (A), HeLa (B) whole cell lysates 10% SDS PAGE (30 µg) at 1/1000 dilution.

