

**AP26045PU-S****Polyclonal Antibody to CHK2 (514-518) - Aff - Purified**

<b>Alternate names:</b>	CHEK-2, CHEK2, CHK-2, CHK2 checkpoint homolog, Cds1, RAD53, Serine/threonine-protein kinase Chk2
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	The BRCA1-BARD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage repair, ubiquitination and transcriptional regulation to maintain genomic stability. Acts by mediating ubiquitin E3 ligase activity that is required for its tumor suppressor function. Plays a central role in DNA repair by facilitating cellular response to DNA repair. Required for appropriate cell cycle arrests after ionizing irradiation in both the S-phase and the G2 phase of the cell cycle. Involved in transcriptional regulation of P21 in response to DNA damage. Required for FANCD2 targeting to sites of DNA damage. May function as a transcriptional regulator. Inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing its dephosphorylation.
<b>Uniprot ID:</b>	<a href="#">O96017</a>
<b>NCBI:</b>	<a href="#">NP_001005735</a>
<b>GenElD:</b>	<a href="#">11200</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Peptide sequence around aa 514~518 derived from Chk2 <b>AA Sequence:</b> Q-P-S-T-S
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Affinity-chromatography using epitope-specific peptide <b>Buffer System:</b> Phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
<b>Applications:</b>	Western blot: 1:500 - 1:1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects endogenous levels of total Chk2 protein.
<b>Species Reactivity:</b>	<b>Tested:</b> Human
<b>Add. Information:</b>	Molecular weight: 62 kDa
<b>Storage:</b>	Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Melchionna, R. et al. (2000) Nat. Cell Biol. 2, 762-765. 2. Ahn, J.Y. et al. (2000) Cancer Res. 60, 5934-5936. 3. Lee, C.H. and Chung, J.H. (2001) J. Biol. Chem. 276, 30537-30541.

**Pictures:**

Western blot analysis of extract from HL60 cells using Chk2 Antibody AP26045PU-N.

