



Chk2 (phospho Ser516) rabbit pAb

Cat#: orb764162 (Manual)

For research use only. Not intended for diagnostic use.

Product Name Chk2 (phospho Ser516) rabbit pAb

Host species Rabbit

Applications WB;ELISA

Species Cross-Reactivity Human; Monkey

Recommended dilutions Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other

applications.

Immunogen The antiserum was produced against synthesized peptide derived from

human Chk2 around the phosphorylation site of Ser516. AA range:486-535

Phospho-Chk2 (S516) Polyclonal Antibody detects endogenous levels of **Specificity**

Chk2 protein only when phosphorylated at S516.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Store at -20°C. Avoid repeated freeze-thaw cycles. **Storage**

Protein Name Serine/threonine-protein kinase Chk2

Gene Name CHEK2

Cellular localization [Isoform 2]: Nucleus. Isoform 10 is present throughout the cell.; [Isoform 4]:

Nucleus.; [Isoform 7]: Nucleus.; [Isoform 9]: Nucleus.; [Isoform 12]: Nucleus.; Nucleus, PML body. Nucleus, nucleoplasm. Recruited into PML

bodies together with TP53.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

epitope-specific immunogen. chromatography using





Clonality Polyclonal

Concentration 1 mg/ml

Observed band 61kD

Human Gene ID 11200

Human Swiss-Prot Number 096017

Alternative Names CHEK2; CDS1; CHK2; RAD53; Serine/threonine-protein kinase Chk2;

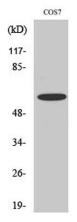
CHK2 checkpoint homolog; Cds1 homolog; Hucds1; hCds1; Checkpoint

kinase 2

Background In response to DNA damage and replication blocks, cell cycle progression is

halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated, the encoded protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype

usually associated with inherited mutati

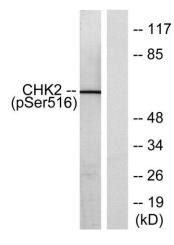


Western Blot analysis of various cells using Phospho-Chk2 (S516) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).





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Western blot analysis of lysates from HeLa cells treated with UV, using Chk2 (Phospho-Ser516) Antibody. The lane on the right is blocked with the phospho peptide.