



## Chk2 (phospho-Ser19) rabbit pAb

| Catalog No         | BYab-16647   |
|--------------------|--|
| Isotype            | lgG  |
| Reactivity         | Human;Rat;Mouse;   |
| Applications       | WB   |
| Gene Name          | CHEK2 CDS1 CHK2 RAD53  |
| Protein Name       | Chk2 (Ser19)   |
| Immunogen          | Synthesized phosho peptide around human Chk2 (Ser19)   |
| Specificity        | This antibody detects endogenous levels of Human Chk2 (phospho-Ser19)  |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| Source             | Polyclonal, Rabbit,IgG   |
| Purification       | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.  |
| Dilution           | WB 1:1000-2000   |
| Concentration      | 1 mg/ml  |
| Purity             | ≥90%   |
| Storage Stability  | -20°C/1 year   |
| Synonyms           | Serine/threonine-protein kinase Chk2 (EC 2.7.11.1) (CHK2 checkpoint homolog)<br>(Cds1 homolog) (Hucds1) (hCds1) (Checkpoint kinase 2)  |
| Observed Band      | 61kD   |
| Cell Pathway       | [Isoform 2]: Nucleus. Isoform 10 is present throughout the cell.; [Isoform 4]:<br>Nucleus.; [Isoform 7]: Nucleus.; [Isoform 9]: Nucleus.; [Isoform 12]: Nucleus.;<br>Nucleus, PML body. Nucleus, nucleoplasm. Recruited into PML bodies together<br>with TP53.   |
| Tissue Specificity | High expression is found in testis, spleen, colon and peripheral blood leukocytes.<br>Low expression is found in other tissues.  |
| Function           | catalytic activity:ATP + a protein = ADP + a<br>phosphoprotein.,cofactor:Magnesium.,disease:Defects in CHEK2 are associated<br>with Li-Fraumeni syndrome 2 (LFS2) [MIM:609265]; a highly penetrant familial<br>cancer phenotype usually associated with inherited mutations in<br>p53/TP53.,disease:Defects in CHEK2 are found in some patients with<br>osteosarcoma (OSRC) [MIM:259500].,disease:Defects in CHEK2 are found in<br>some patients with prostate cancer (CaP) [MIM:176807].,enzyme<br>regulation:Rapidly phosphorylated on Thr-68 by MLTK in response to DNA<br>damage and to replication block. Kinase activity is also up-regulated by |
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网址: www.njbybio.com 官方热线: 025-5229-8998 监督电话: 15950492658

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|---------------------------|---|
|                           | autophosphorylation.,function:Regulates cell cycle checkpoints and apoptosis in response to DNA damage, particularly to DNA double-strand breaks. Inhibits CDC25C phosphatase by phosphorylation on 'Ser-216', preventing the entry into mitosis. May also play a role in meiosis. Regulates the TP53   |
| Background                | In response to DNA damage and replication blocks, cell cycle progression is<br>halted through the control of critical cell cycle regulators. The protein encoded by<br>this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It<br>contains a forkhead-associated protein interaction domain essential for activation<br>in response to DNA damage and is rapidly phosphorylated in response to<br>replication blocks and DNA damage. When activated, the encoded protein is<br>known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has<br>been shown to stabilize the tumor suppressor protein p53, leading to cell cycle<br>arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1,<br>allowing BRCA1 to restore survival after DNA damage. Mutations in this gene<br>have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer<br>phenotype usually associated with inherited mutati |
| matters needing attention | Avoid repeated freezing and thawing!  |
| Usage suggestions         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.   |

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