



Chk2 (phospho Ser516) Monoclonal Antibody

| BYmab-16591 |
|--|
| IgG |
| Human;Monkey |
| WB |
| CHEK2 |
| Serine/threonine-protein kinase Chk2 |
| The antiserum was produced against synthesized peptide derived from human Chk2 around the phosphorylation site of Ser516. AA range:486-535 |
| Phospho-Chk2 (S516) Monoclonal Antibody detects endogenous levels of Chk2 protein only when phosphorylated at S516. |
| Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Monoclonal, Mouse,IgG |
| The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| WB 1:500-2000 |
| 1 mg/ml |
| ≥90% |
| -20°C/1 year |
| CHEK2; CDS1; CHK2; RAD53; Serine/threonine-protein kinase Chk2; CHK2 checkpoint homolog; Cds1 homolog; Hucds1; hCds1; Checkpoint kinase 2 |
| 61kD |
| [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. |
| High expression is found in testis, spleen, colon and peripheral blood leukocytes. Low expression is found in other tissues. |
| catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,disease:Defects in CHEK2 are associated with Li-Fraumeni syndrome 2 (LFS2) [MIM:609265]; a highly penetrant familial cancer phenotype usually associated with inherited mutations in p53/TP53.,disease:Defects in CHEK2 are found in some patients with |
| |

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| damage and to replication block. Kinase activity is also up-r | egulated by |
|---|------------------------|
| autophosphorylation.,function:Regulates cell cýcle checkpo | |
| response to DNA damage, particularly to DNA double-stran | |
| CDC25C phosphatase by phosphorylation on 'Ser-216', pre | venting the entry into |
| mitosis. May also play a role in meiosis. Regulates the TP5 | 3 |

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

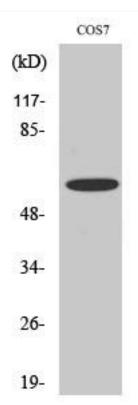
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Chk2 (phospho Ser516) Monoclonal Antibody

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