



Chk2 (phospho-Ser19) mouse mAb

∕mab-16647
TIIAD-10047
G
uman;Rat;Mouse;
В
HEK2 CDS1 CHK2 RAD53
nk2 (Ser19)
nthesized phosho peptide around human Chk2 (Ser19)
nis antibody detects endogenous levels of Human Chk2 (phospho-Ser19)
quid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
onoclonal, Mouse,lgG
ne antibody was affinity-purified from mouse antiserum by finity-chromatography using epitope-specific immunogen.
B 1:500-2000
mg/ml
90%
0°C/1 year
erine/threonine-protein kinase Chk2 (EC 2.7.11.1) (CHK2 checkpoint homolog) cds1 homolog) (Hucds1) (hCds1) (Checkpoint kinase 2)
kD
oform 2]: Nucleus. Isoform 10 is present throughout the cell.; [Isoform 4]: ucleus.; [Isoform 7]: Nucleus.; [Isoform 9]: Nucleus.; [Isoform 12]: Nucleus.; ucleus, PML body. Nucleus, nucleoplasm. Recruited into PML bodies together th TP53.
gh expression is found in testis, spleen, colon and peripheral blood leukocytes. ow expression is found in other tissues.
stalytic activity:ATP + a protein = ADP + a prosphoprotein.,cofactor:Magnesium.,disease:Defects in CHEK2 are associated th Li-Fraumeni syndrome 2 (LFS2) [MIM:609265]; a highly penetrant familial incer phenotype usually associated with inherited mutations in 63/TP53.,disease:Defects in CHEK2 are found in some patients with steosarcoma (OSRC) [MIM:259500].,disease:Defects in CHEK2 are found in the patients with prostate cancer (CaP) [MIM:176807].,enzyme gulation:Rapidly phosphorylated on Thr-68 by MLTK in response to DNA amage and to replication block. Kinase activity is also up-regulated by
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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 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

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