



Chk2 (Phospho Thr432) rabbit pAb

Catalog No	YP-Ab-16656
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB; ELISA
Gene Name	CHEK2 CDS1 CHK2 RAD53
Immunogen	Synthesized peptide derived from human Chk2 (Phospho Thr432)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat Chk2 (Phospho Thr432)
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 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CHK2;Hucds1;hCds1;EC:2.7.11.1;Cds1 homolog;CHEK2 CDS1 CHK2 RAD53; Chk2 (Phospho Thr432);Serine/threonine-protein kinase Chk2 (EC 2.7.11.1; CHK2 checkpoint homolog;Checkpoint kinase 2)
Observed Band	65 kDa
Calculated Molecular Weight	61 kDa
Cell Pathway	[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.
Tissue Specificity	High expression is found in testis, spleen, colon and peripheral blood leukocytes. Low expression is found in other tissues.
Function	cell cycle checkpoint, DNA damage checkpoint, protein amino acid phosphorylation, phosphorus metabolic process,phosphate metabolic process, induction of apoptosis, response to DNA damage stimulus, cell cycle, intracellular signaling cascade, induction of apoptosis by intracellular signals, DNA damage response, signal transduction resulting in induction of apoptosis, regulation of cell death, positive regulation of cell death, induction of programmed cell death,phosphorylation, DNA integrity checkpoint, cellular



response to stress, DNA damage response, signal transduction, regulation of apoptosis, positive regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death, regulation of cell cycle,

Background

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 osteosarcoma (OSRC) [MIM:259500].,disease:Defects in CHEK2 are found in some patients with prostate cancer (CaP) [MIM:176807].,enzyme regulation:Rapidly phosphorylated on Thr-68 by MLTK in response to DNA damage and to replication block. Kinase activity is also up-regulated by 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 tumor suppressor through phosphorylation at 'Thr-18' and 'Ser-20'. ,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CHK2 subfamily., similarity:Contains 1 FHA domain.,similarity:Contains 1 protein kinase domain., subcellular location:Isoform 10 is present throughout the cell.,tissue specificity:High expression is found in testis, spleen, colon and peripheral blood leukocytes. Low expression is found in other tissues.,

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