

## Chk2 (PT0474R) PT® Rabbit mAb

Catalog No :	YM8308
Reactivity :	Human; Mouse;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Chk2
Fields :	>>Cell cycle;>>p53 signaling pathway;>>Cellular senescence;>>Human T-cell leukemia virus 1 infection
Gene Name :	CHEK2
Protein Name :	Serine/threonine-protein kinase Chk2
Human Gene Id :	11200
Human Swiss Prot	O96017
No : Mouse Gene Id :	50883
Mouse Swiss Prot	Q9Z265
No : Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:1000-1:4000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	61kD

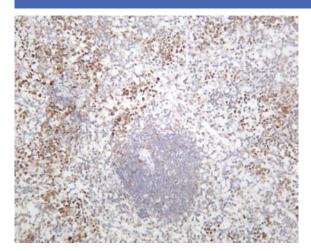
mmunoway

Best Tools for immunology Research **Observed Band :** 61kD **Cell Pathway :** Cell Cycle G1S;Cell Cycle G2M DNA;p53; In response to DNA damage and replication blocks, cell cycle progression is **Background**: 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 **Function:** catalytic activity: ATP + a protein = ADP + aphosphoprotein.,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 **Subcellular** Nucleus Location : **Expression**: High expression is found in testis, spleen, colon and peripheral blood leukocytes. Low expression is found in other tissues. hot,recombinant Tag: Sort : 767

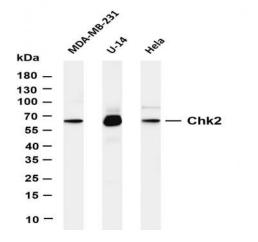
No4 :	1
Host :	Rabbit
Modifications :	Unmodified



## **Products Images**



Mouse spleen was stained with anti-Chk2 (PT0474R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Chk2 (PT0474R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: MDA-MB-231 Lane 2: U-14 Lane 3: Hela Predicted band size: 61kDa Observed band size: 61kDa