Anti-Phospho-Chk1 (Ser280) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013937

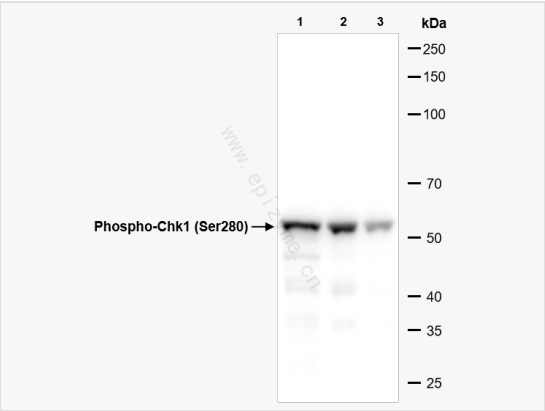
Product Information

Application	ELISA, IF (Cell)/ICC, WB
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	69N38E22
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Ser280 of human Chk1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-Chk1 (Ser280) Rabbit mAb [69N38E22] is for research use only and not for use in diagnostic or therapeutic procedures.

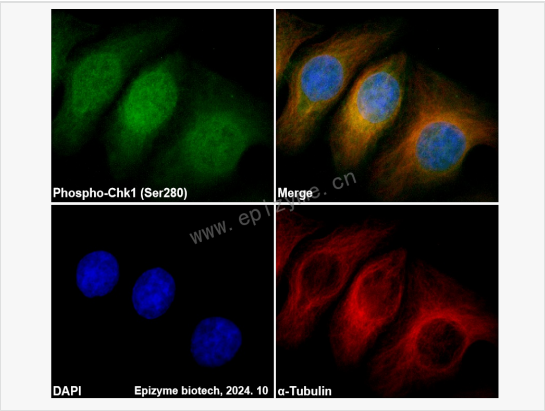
Protein Information

Synonyms	C85740, Cell cycle checkpoint kinase, Checkpoint, S. pombe, homolog of, 1, Checkpoint kinase 1, Checkpoint kinase 1 homolog (S. pombe), CHEK 1, Chek1, Chk 1, Chk1, CHK1 checkpoint homolog (S. pombe), CHK1_HUMAN, EC 2.7.11.1, rad27, Serine/threonine protein kinase Chk1, Serine/threonine-protein kinase CHK1, STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae).
Calculated MW	Calculated MW: 54 kDa; Observed MW: 54 kDa
Uniprot ID	O14757
Gene ID	1111
Background	The protein encoded by this gene belongs to the Ser/Thr protein kinase family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2011]

Validation Images



Western Blot - Anti-Phospho-Chk1 (Ser280) Rabbit mAb [69N38E22]
All lanes: R013937 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 54 kDa
Observed band size: 54 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-Chk1 (Ser280) Rabbit mAb [69N38E22]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013937 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).