Recombinant Chk2 Monoclonal Antibody

Catalog No. E-AB-81546

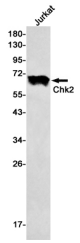
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity	Human
Immunogen	Recombinant protein of human Chk2
Host	Rabbit
Isotype	IgG
Clone	R04-8E5
Purification	Affinity Purified
Conjugation	Unconjugated
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein

Applications	Recommended Dilution
WB	1:500-1:1000

Data



Western blot detection of Chk2 in Jurkat cell lysates using Chk2 Rabbit mAb(1:500 diluted).Predicted band size:61kDa.Observed band size:61kDa.

Observed Mw:61kDa

Calculated Mw:61kDa

Preparation & Storage

Storage	Store at -20℃. Avoid freeze / thaw cycles.

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 mutations in TP53. Also, mutations in this

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gene are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors. This nuclear protein is a member of the CDS1 subfamily of serine/threonine protein kinases. Several transcript variants encoding different isoforms have been found for this gene.

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