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Anti-Chk2 (NT)
Polyclonal Antibody

CATALOG No.: PX213A SIZE: 100 µg
PX213B SIZE: 0.5 mg

BACKGROUND:

The p53 tumor-suppressor gene integrates numerous signals that control cell life and death. Several novel molecules involved in p53 signaling, including Chk2 (1), p53R2 (2), p53AIP1 (3), Noxa (4), PIDD (5), and PID/MTA2 (6), were recently discovered. The checkpoint kinase Chk2 is the mammalian homologue of yeast Cds1/Rad53. In response to DNA damage, the checkpoint kinase ATM phosphorylates and activates Chk2, which in turn directly phosphorylates and activates p53 (7,8). Chk2 serves as ATM downstream effector to mediate activation of p53. Chk2 also phosphorylates and activates BRCA1, the product of a tumor suppressor gene that is mutated in breast and ovarian cancer (9).

SOURCE:

Rabbit anti-Chk2 polyclonal antibody was raised against a synthetic peptide (SRESDVEAQQSHGS SAC) corresponding to amino acids 2 to 18 of human Chk2 (1).

APPLICATION:

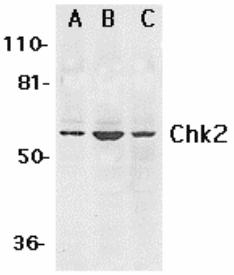
This antibody can be used for detection of Chk2 by Western blot at 0.5 to 1 µg/ml. Jurkat or K562 cell lysate can be used as positive control and a 60 kDa band can be detected. It is human, mouse, and rat reactive.

STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

RELATED PRODUCTS:

Blocking peptide, 50 µg at 200 µg/ml, is available for competition studies. Jurkat cell lysate, 100 µg at 2 mg/ml, is available for positive control.



Western blot analysis of Chk2 expression in K562 (A), Jurkat (B), and HL-60 (C) whole cell lysates with anti-Chk2 at 1 µg /ml.

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CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

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