

Chk2 Antibody

Chk2 (NT): Checkpoint kinase 2

CATALOG NO.: 2391

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 polyclonal Chk2 antibody was raised against a synthetic peptide corresponding to amino acids near the amino terminus of human Chk2 (1).

APPLICATION:

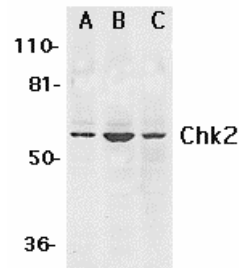
Chk2 antibody can be used for detection of Chk2 by Western blot at 0.5 to 1 µg/ml. (Optimal dilution should be determined by user.) Jurkat or K562 cell lysate can be used as positive control and a 60 kDa band can be detected. Chk2 antibody is human, mouse, and rat reactive. **For research use only.**

STORAGE:

Chk2 antibody is supplied as immunoaffinity chromatography purified IgG, in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

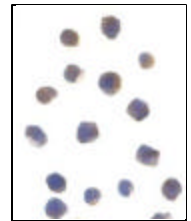
RELATED PRODUCTS:

Blocking peptide, Catalog No. **2391P**.
Jurkat Cell lysate, Catalog No. **1205**.
ATM Antibody, Catalog No. **3945**.
Noxa Antibody, Catalog No. **2437**.



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

Immunocytochemistry of Chk2 in Jurkat cells with Chk2 antibody at 1 µg/ml.



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