
CHK2 (1C12) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 252785

Unit: 0.1 ml

Description:

CHK2 (CHK2 checkpoint homolog) is a nuclear protein, a member of the CDS1 subfamily of serine/threonine protein kinases. CHK2 is a cell cycle checkpoint regulator and putative tumor suppressor. In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. 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, it 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 protein are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors.

Isotype: Mouse IgG2b

Applications: WB, IHC, IF

Species Reactivity: H

Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

Alternate Names: Serine/threonine-protein kinase Chk2; CHK2 checkpoint homolog; Cds1 homolog; Hucds1; hCds1; Checkpoint kinase 2; CDS1; CHK2; RAD53; CHEK2;

Accession No.: O96017

Antigen: Purified recombinant fragment of human CHK2 (aa481-531) expressed in E. coli.

Application Notes: WB: 1:500-1:2000; IHC: 1:200-1:1000; IF: 1:200-1:1000;

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.