

CHK1 (2G1D) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 252622

Unit: 0.1 mg

Description:

CHK1 (Serine/threonine-protein kinase CHK1) is required for checkpoint-mediated cell cycle arrest and activation of DNA repair in response to the presence of DNA damage or unreplicated DNA. CHK1 phosphorylates Cdc25, an important phosphatase in cell cycle control, particularly for entry into mitosis. Cdc25, when phosphorylated on serine 216 by Chk1 becomes bound by an adaptor protein in the cytoplasm. Therefore it is inhibited from removing the inhibiting phosphate from MPF (mitotic/maturation promoting factor) added by Wee1. Consequently, a cell is prevented from entering mitosis. Chk1 can also phosphorylate p53 at Ser20 in vitro.

Isotype: Mouse IgG1

Applications: WB

Species Reactivity: H, M

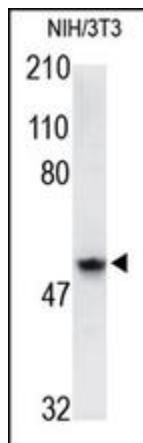
Format: Each vial contains 0.1 mg IgG in PBS pH7.4 with 0.03% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: CHEK1; CHK1; Serine/threonine-protein kinase Chk1; CHK1 checkpoint homolog; Cell cycle checkpoint kinase; Checkpoint kinase-1

Accession No.: O14757

Antigen: Purified recombinant fragment of CHK1 expressed in *E. coli*.

Application Notes: WB: 1: 500-1: 2,000



The CHK1 (2G1D) Antibody is used in Western blot to detect CHK1 in NIH/3T3 cell lysate.

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.