

# Phospho-Chk2-S33/35 Rabbit pAb

Catalog No.: AP0545 **1 Publications**

## Basic Information

**Observed MW**

61kDa

**Calculated MW**

61kDa

**Category**

Primary antibody

**Applications**

ELISA,WB

**Cross-Reactivity**

Human

## 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 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.

## Recommended Dilutions

WB 1:500 - 1:2000

## Immunogen Information

**Gene ID**

11200

**Swiss Prot**

O96017

**Immunogen**

A synthetic phosphorylated peptide around S33 &amp; S35 of human Chk2 (NP\_009125.1).

**Synonyms**

CDS1; CHK2; LFS2; RAD53; hCds1; HuCds1; PP1425; Phospho-Chk2-S33/35

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

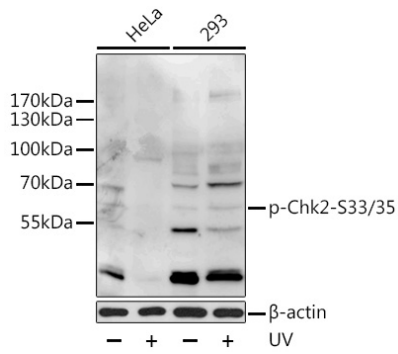
**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

## Validation Data

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Western blot analysis of extracts of HeLa and 293 cells, using Phospho-Chk2-S33/35 antibody (AP0545) at 1:1000 dilution. HeLa cells were treated by UV for 15-30 minutes. 293 cells were treated by UV for 15-30 minutes.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 $\mu$ g per lane.

Blocking buffer: 3% BSA.