

Phospho-Chk1-S296 Rabbit mAb

Catalog No.: AP1047 **Recombinant**

Basic Information

Observed MW

50kDa

Calculated MW

54kDa

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Human

CloneNo number

ARC1593

Background

The protein encoded by this gene belongs to the Ser/Thr protein kinase family. It is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. This protein acts to integrate signals from ATM and ATR, two cell cycle proteins involved in DNA damage responses, that also associate with chromatin in meiotic prophase I. Phosphorylation of CDC25A protein phosphatase by this protein is required for cells to delay cell cycle progression in response to double-strand DNA breaks. Several alternatively spliced transcript variants have been found for this gene.

Recommended Dilutions

WB 1:500 - 1:1000

Immunogen Information

Gene ID

1111

Swiss Prot

O14757

Immunogen

A synthetic phosphorylated peptide around S296 of human Chk1 (O14757).

Synonyms

CHK1; Phospho-Chk1-S296

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

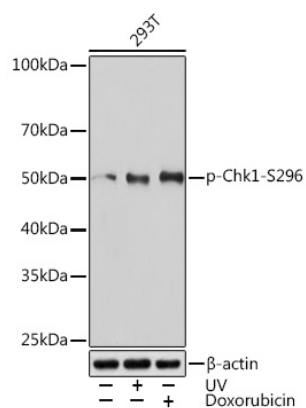
Affinity purification

Storage

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

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of 293T cells, using Phospho-Chk1-S296 Rabbit mAb (AP1047) at 1:1000 dilution. 293T cells were treated by UV at room temperature for 15-30 minutes and Doxorubicin (0.5 μ M) at 37°C for 24 hours.

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

Lysates/proteins: 25 μ g per lane.

Blocking buffer: 3% BSA.

Detection: ECL Basic Kit (RM00020).

Exposure time: 3min.