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# Recombinant Phospho-Chk1 (Ser345) Monoclonal Antibody

catalog number: AN301324L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Reactivity Human; Mouse; Rat

Immunogen A synthetic peptide corresponding to residues around (Ser345) of Human Phospho-

Chk1

 Host
 Rabbit

 Isotype
 IgG,κ

 Clone
 B1087

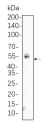
 Purification
 Protein A

**Buffer** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

**WB** 1:500-1:2000

#### Data



Western Blot with Recombinant Phospho-Chk1 (Ser345)

Monoclonal Antibody at dilution of 1:1000 dilution. Lane A:

NIH-3T3 cell lysate.

Observed-MW:56 kDa

Calculated-MW:56 kDa

# **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

## **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.

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