

# Recombinant Phospho-Chk2 (Thr68) Monoclonal Antibody

catalog number: AN300151L

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

# **Description**

Reactivity Human

**Immunogen** A synthetic phosphopeptide corresponding to residues around Thr68 of the Human

Chk2

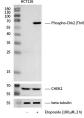
Host Rabbit Isotype lgG A1265 Clone **Purification** Protein A

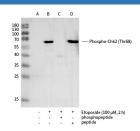
Buffer 10 mM sodium HEPES, 150 mM NaCl, 100 µg/mL protein protectant, 50% glycerol,

**Applications Recommended Dilution** 

1:1000-1:10000 **WB** 

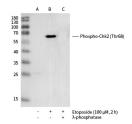
### **Data**





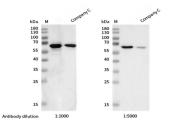
Western blot analysis of extracts from HCT116, untreated (-) Western blot analysis of extracts from HCT116, untreated or treated with Etoposide (100 µM, 2 h) (+), using Phospho-Chk2 (Thr68) Monoclonal Antibody at 1:500 dilution (upper) peptide (line B) or antigen-specific phosphopeptide (line C) or Anti-CHEK2 Antibody, Rabbit PAb (middle) at 1:1000 dilution or Beta-Tubulin Loading Control Antibody, Mouse

Mab at 1:10000 dilution. Observed-MW:61 kDa Calculated-MW:61 kDa



(line A); treated with Etoposide (100 µM, 2 h), without or antigen-specific peptide (line D) using Phospho-Chk2 (Thr68) Monoclonal Antibody at 1:500 dilution.

> Observed-MW:61 kDa Calculated-MW:61 kDa



Western blot analysis of extracts from HCT116, untreated (line A); treated with Etoposide (100 µM, 2 h) (line B); treated with Etoposide and λ-phosphatase (line C) using Phospho-Chk2 (Thr68) Monoclonal Antibody at 1:500 dilution.

> Observed-MW:61 kDa Calculated-MW:61 kDa

Western blot analysis of extracts from HCT116, treated with Etoposide (100µM, 2 h), using Phospho-Chk2 (Thr68) Monoclonal Antibody (Sino Biological) and other brands' antibodies (Company C) at dilution of 1:1000, 1:5000.

> Observed-MW:61 kDa Calculated-MW:61 kDa

### **Preparation & Storage**

# For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Web: www.elabscience.com Email: techsupport@elabscience.com

# **Elabscience**®

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**Storage** This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping lce bag

## **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.

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 Web: www.elabscience.com
 Email: techsupport@elabscience.com
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