

Recombinant Phospho-Chk2 (Thr68) Monoclonal Antibody

catalog number: **AN300151L**

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

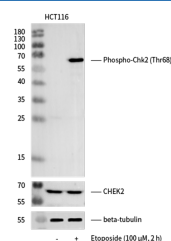
Description

Reactivity	Human
Immunogen	A synthetic phosphopeptide corresponding to residues around Thr68 of the Human Chk2
Host	Rabbit
Isotype	IgG
Clone	5B2
Purification	Protein A
Buffer	10 mM sodium HEPES, 150 mM NaCl, 100 µg/mL protein protectant, 50% glycerol, pH 7.5

Applications Recommended Dilution

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

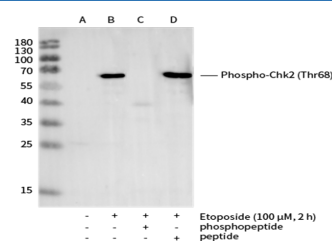
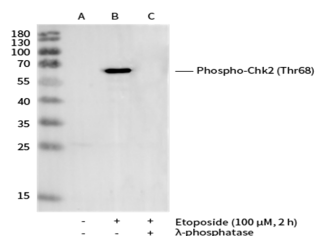
Data



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) 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

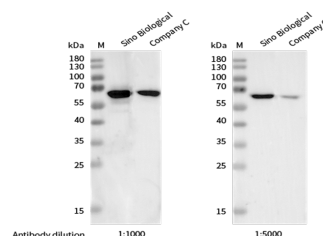
Calculated-MW:61 kDa



Western blot analysis of extracts from HCT116, untreated (line A); treated with Etoposide (100 µM, 2 h), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-Chk2 (Thr68) Monoclonal Antibody at 1:500 dilution.

Observed-MW:61 kDa

Calculated-MW:61 kDa



For Research Use Only

Toll-free: 1-888-852-8623
Web: www.elabscience.com

Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017

Rev. V1.1

Western blot analysis of extracts from HCT116, untreated (line A); treated with Etoposide (100 μ M, 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 (100 μ M, 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

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

Ice 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.

For Research Use Only