



A Reliable Research Partner in Life Science and Medicine

# **CHEK2 Polyclonal Antibody**

Catalog No. E-AB-53245

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

### **Description**

**Reactivity** Human

**Immunogen** Synthetic peptide of human CHEK2

Host Rabbit
Isotype IgG

**Purification** Antigen affinity purification

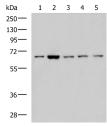
Conjugation Unconjugated

**Buffer** PBS with 0.05% NaN3 and 40% Glycerol,pH7.4

**Applications** Recommended Dilution

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

## Data



Western blot analysis of 293T LOVO Hela and Jurkat cell lysates using CHEK2 Polyclonal Antibody at dilution of 1:600

> Observed Mw:Refer to figures Calculated Mw:61 kDa

## **Preparation & Storage**

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

#### **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

### 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





A Reliable Research Partner in Life Science and Medicine

been found for this gene.

For Research Use Only

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

Web: www.elabscience.com