

Product datasheet for TA323481S

Chk2 (CHEK2) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: WB: 200-1000

WB positive control: MCF-7, 293T, HT-29, Hela and Jurkat cells

Reactivity: Human
Host: Rabbit
Isotype: IgG

Clonality: Polyclonal

Immunogen: Synthetic peptide corresponding to a region derived from 2-18 amino acids of Human

Checkpoint kinase 2

Formulation: PBS pH7.3, 0.05% NaN3, 50% glycerol

Purification: Antigen affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 61 kDa

Gene Name: checkpoint kinase 2

Database Link: NP 001005735

Entrez Gene 11200 Human

<u>096017</u>



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Background:

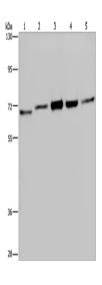
In response to DNA damage and replication blocks; cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential 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.

Synonyms: CDS1; CHK2; hCds1; HuCds1; LFS2; PP1425; RAD53

Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle, p53 signaling pathway

Product images:



Gel: 6%SDS-PAGE Lysate: 40 µg Lane 1-5: MCF7 cells 293T cells HT29 cells Hela cells

Primary antibody: [TA323481] (CHEK2 Antibody)

at dilution 1/150

Jurkat cells

Secondary antibody: Goat anti rabbit IgG at

1/8000 dilution

Exposure time: 2 minutes