

Recombinant

DGRmAb®

Chk2 (DGR13528) Rabbit mAb (PBS Only)

db12037-PBS

Package : 100µg

Product Name : Chk2 (DGR13528) Rabbit mAb (PBS Only)**Cat.No.:** db12037-PBS**Synonyms** : CDS1; CHK2; LFS2; RAD53; hCds1; HuCds1; PP1425**Application** : WB, IHC, ICC/IF, FC, IP**Reactivity** : Human**Host species** : Rabbit**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. [provided by RefSeq, Apr 2012]

Immunogen

Recombinant protein of human Chk2

Gene ID

11200

Swiss Prot

O96017

Synonyms

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

Reactivity

Human

Application

WB, IHC, ICC/IF, FC, IP

Calculated MW

61 kDa

Observed MW

61 kDa

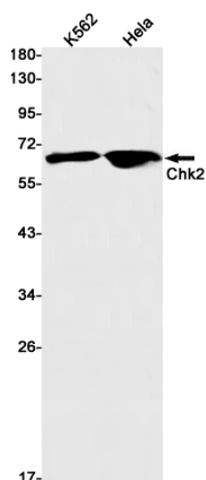
Host species

Rabbit

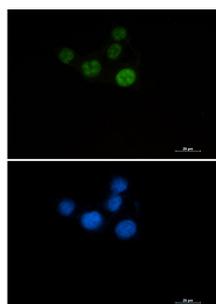
Clonality

Monoclonal

Clonality No.	DGR13528
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



Western blot detection of Chk2 in K562, HeLa cell lysates using Chk2 antibody (1:1000 diluted).



Immunofluorescent analysis of HCT116 cells using db12037 antibody (green), and DAPI (blue).