

## Chk2 (phospho Thr387) rabbit pAb

Cat No.: ES4611

For research use only

## Overview

Product Name Chk2 (phospho Thr387) rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA Species Cross-Reactivity Human;Mouse;Rat

**Recommended dilutions** Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human Chk2 around the phosphorylation site of Thr387. AA range:361-410

**Specificity** Phospho-Chk2 (T387) Polyclonal Antibody detects

endogenous levels of Chk2 protein only when

phosphorylated at T387.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

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

**Protein Name** Serine/threonine-protein kinase Chk2

Gene Name CHEK2

**Purification** 

**Cellular localization** [Isoform 2]: Nucleus. Isoform 10 is present

throughout the cell.; [Isoform 4]: Nucleus.; [Isoform 7]: Nucleus.; [Isoform 9]: Nucleus.; [Isoform 12]: Nucleus.; Nucleus, PML body. Nucleus, nucleoplasm. Recruited into PML bodies together with TP53.

The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

ClonalityPolyclonalConcentration1 mg/mlObserved band60kDHuman Gene ID11200Human Swiss-Prot Number096017

Alternative Names CHEK2; CDS1; CHK2; RAD53;

Serine/threonine-protein kinase Chk2; CHK2



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**Background** 

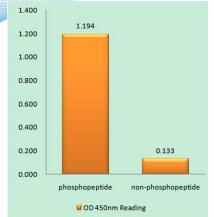
checkpoint homolog; Cds1 homolog; Hucds1; hCds1; Checkpoint kinase 2

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 mutati

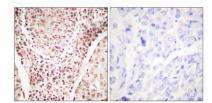
Western Blot analysis of Hela cells using Phospho-Chk2 (T387) Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



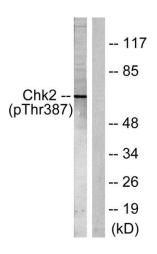




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Chk2 (Phospho-Thr387) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Chk2 (Phospho-Thr387) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells, using Chk2 (Phospho-Thr387) Antibody. The lane on the right is blocked with the phospho peptide.

