

## Chk2(Ab-516) Antibody

Catalog No: #21117

Package Size: #21117-1 50ul #21117-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

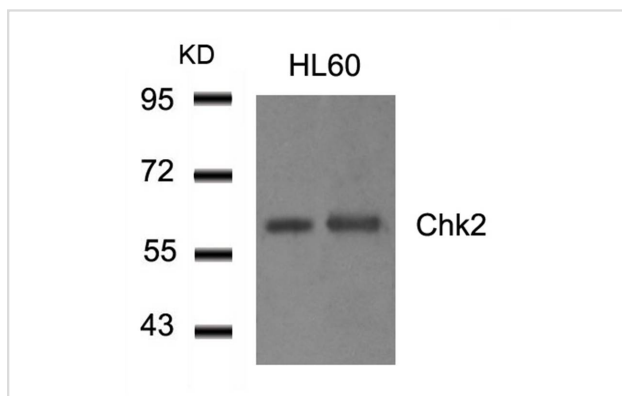
Product Name	Chk2(Ab-516) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total Chk2 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 514~518(Q-P-S-T-S) derived from Human Chk2.
Target Name	Chk2
Other Names	CHEK2; RAD53;
Accession No.	Swiss-Prot: O96017NCBI Protein: NP_001005735.1
Uniprot	O96017
GeneID	11200;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

Predicted MW: 62kd

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extract from HL60 cells using Chk2(Ab-516) Antibody #21117.

## Background

---

The BRCA1-BARD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage repair, ubiquitination and transcriptional regulation to maintain genomic stability. Acts by mediating ubiquitin E3 ligase activity that is required for its tumor suppressor function. Plays a central role in DNA repair by facilitating cellular response to DNA repair. Required for appropriate cell cycle arrests after ionizing irradiation in both the S-phase and the G2 phase of the cell cycle. Involved in transcriptional regulation of P21 in response to DNA damage. Required for FANCD2 targeting to sites of DNA damage. May function as a transcriptional regulator. Inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing its dephosphorylation

Melchionna, R. et al. (2000) Nat. Cell Biol. 2, 762-765.

Ahn, J.Y. et al. (2000) Cancer Res. 60, 5934-5936.

Lee, C.H. and Chung, J.H. (2001) J. Biol. Chem. 276, 30537-30541

---

Note: This product is for in vitro research use only