

Datasheet for ABIN7126216 **anti-CHEK2 antibody**

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Overview

Quantity:	100 µg
Target:	CHEK2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CHEK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant fragment of human CHEK2 corresponding to protein domain
Isotype:	IgG2b
Specificity:	Recognizes a serine/threonine protein kinase that is a required check-point to mediate cell cycle arrest, activation of DNA repair and apoptosis. 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. Also, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this

Product Details

gene have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype usually associated with inherited mutations in TP53. Mutations in this gene are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors.

Cross-Reactivity (Details): Human. Predicted to react with Mouse and Rat.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: CHEK2

Alternative Name: CHEK2 ([CHEK2 Products](#))

Background: Cds1 homolog, Checkpoint kinase 2, Checkpoint like protein CHK2, CHK2 checkpoint homolog (S. pombe), hCds1, HuCds 1, LFS2, PP1425, RAD53, Rad53 homolog, Serine/threonine protein kinase Chk2,CHEK2
Cellular localisation: Nucleus.

Molecular Weight: 60.91kDa

Gene ID: 11200, 291363, 505297

UniProt: [O96017](#)

Pathways: [p53 Signaling](#), [Apoptosis](#), [Cell Division Cycle](#)

Application Details

Application Notes: Known_Application: Immunoprecipitation (1-2 µg per 100-500 µg of total protein), Flow Cytometry (1-2 µg/million cells), ,Western Blot (1-2 µg/mL),Immunofluorescence (1-2 µg/mL), ,Optimal dilution for a specific application should be determined.
Positive_Control: HeLa or HCT 116 cells. Human testis, spleen or colon.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: Prepared in 10 mM PBS, WITHOUT BSA and Azide.

Preservative: Azide free

Storage: -20 °C,-80 °C

Handling

Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
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Expiry Date:	24 months
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