

Mouse CHEK2 Monoclonal Antibody | anti-CHEK2 antibody

CHEK2 Mouse Monoclonal Antibody [Clone PCRP-CHEK2-1A4]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215543	Mouse	Human Predicted to react with Mouse and Rat.	Immunofluorescence, Western Blot, Flow Cytometry, Functional Assay, Immunoprecipitation

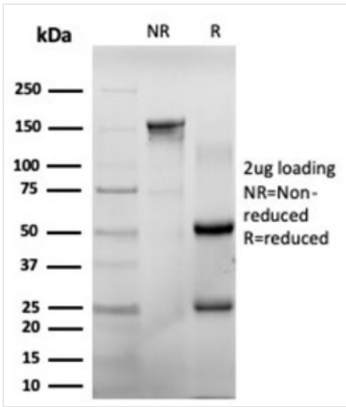
PRODUCT SYNONYMS

CHEK2; Monoclonal Antibody; CHEK2 Mouse Monoclonal Antibody [Clone PCRP-CHEK2-1A4]; 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; anti-CHEK2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human Predicted to react with Mouse and Rat.
Clonality	Monoclonal
Isotype	Mouse/IgG2b
Clone Number	PCRP-CHEK2-1A4
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-CHEK2 antibody	IF (Immunofluorescence), WB (Western Blot), FCM/FACS (Flow Cytometry), IP (Immunoprecipitation)
Immunogen	Recombinant fragment of human CHEK2 corresponding to protein domain
Cellular Localization	Nucleus
Positive Control	HeLa or HCT 116 cells. Human testis, spleen or colon.
Hu-chromosome Location	22q12.1
Unigene	291363; 505297
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified CHEK2 Mouse Monoclonal Antibody (PCRP-CHEK2-1A4).
Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CHEK2 antibody	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 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	54112407
NCBI GeneID	11200
NCBI Accession #	NP_001005735.1
NCBI GenBank Nucleotide #	NM_001005735.1
UniProt Accession #	O96017; Q6QA03; Q6QA04; Q6QA05; Q6QA06; Q6QA07; Q6QA08; Q6QA10; A8K3Y9; B7ZBF3; B7ZBF4; B7ZBF5
Molecular Weight	60,915 Da
NCBI Official Full Name	serine/threonine-protein kinase Chk2 isoform c
NCBI Official Synonym Full Names	checkpoint kinase 2
NCBI Official Symbol	CHEK2
NCBI Official Synonym Symbols	CDS1; CHK2; LFS2; RAD53; hCds1; HuCds1; PP1425
NCBI Protein Information	serine/threonine-protein kinase Chk2; cds1 homolog; CHK2 checkpoint homolog; checkpoint-like protein CHK2
UniProt Protein Name	Serine/threonine-protein kinase Chk2
UniProt Gene Name	CHEK2
UniProt Synonym Gene Names	CDS1; CHK2; RAD53; Hucds1; hCds1
UniProt Entry Name	CHK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/chek2-antibody-clone-pcrp-chek2-1a4-immunofluorescence-western-blot-flow-cytometry-immunoprecipitation-elisa/215543>