

Rabbit Chk2 Polyclonal Antibody | anti-Chk2 antibody

Chk2 (Phospho-Thr383) Antibody

CATALOG # AAA304564	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Western Blot
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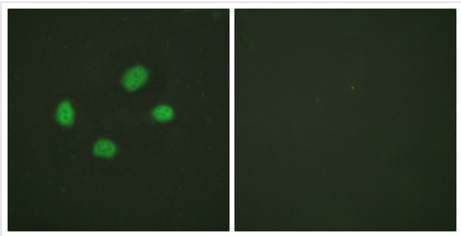
PRODUCT SYNONYMS

Chk2; Polyclonal Antibody; Chk2 (Phospho-Thr383) Antibody; CHEK2; CHK2; Cds1; RAD53; anti-Chk2 antibody

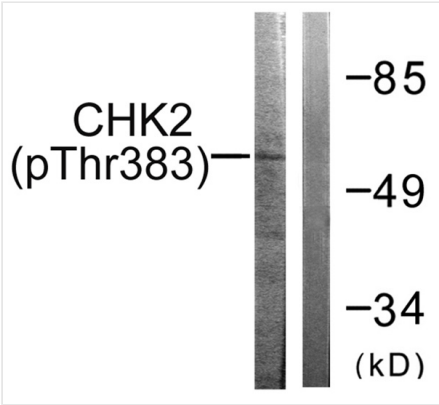
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of Chk2 only when phosphorylated at threonine 383.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	586
Applicable Applications for anti-Chk2 antibody	IF (Immunofluorescence), WB (Western Blot)
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine383 (M-R-T(p)-L-C) derived from Human Chk1.
Modification	Phospho-Thr383
Target Name	Chk2
Preparation and Storage	Store at -20 degree C/1 year

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of methanol-fixed HeLa cells using Chk2 (Phospho-Thr383) Antibody.



WB (Western Blot)
Western blot analysis of extracts from COS7 cells treated with UV using Chk2 (Phospho-Thr383) Antibody. The lane on the right is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-Chk2 antibody	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 Chk2 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. Three transcript variants encoding different isoforms have been found for this gene. Shannon L. Gibson, Cancer Res., Dec 2005; 65: 10734 - 10741. Jinwoo Ahn, J. Biol. Chem., Dec 2002; 277: 48418 - 48426. Nabil H. Chehab, Genes & Dev., Feb 2000; 14: 278.
Product Categories/Family for anti-Chk2 antibody	Phospho-specific Ab

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	36,157 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
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/polyclonal/chk2-antibody-immunofluorescence-western-blot-elisa/304564>