

Rabbit anti-Human CHEK2 Polyclonal Antibody | anti-CHEK2 antibody

CHEK2 antibody - N-terminal region

CATALOG # AAA197103	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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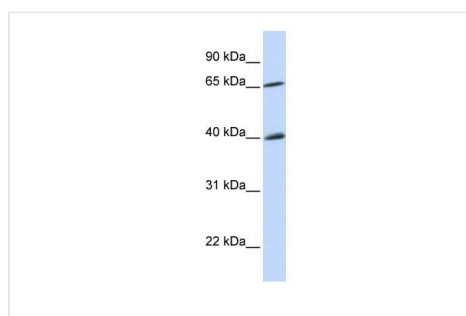
PRODUCT SYNONYMS

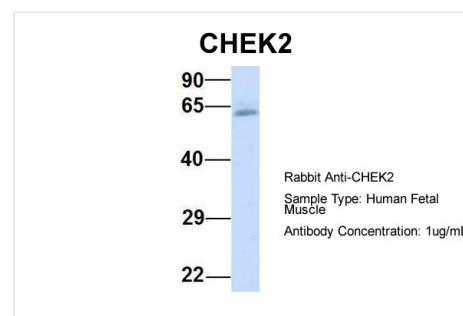
CHEK2; Polyclonal Antibody; CHEK2 antibody - N-terminal region; anti-CHEK2 antibody

PRODUCT SPECIFICATIONS

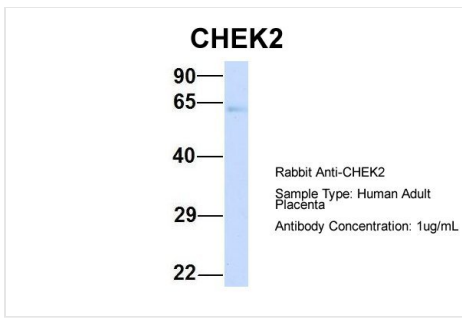
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: SR ESDVEAQQSH GSSACSQPHG SVTQSQGSSS QSQGISST STMPNSSQ
Sequence Length	586
Applicable Applications for anti-CHEK2 antibody	WB (Western Blot)
Homology	Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human CHEK2
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES


WB (Western Blot)

WB Suggested Anti-CHEK2 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:62500
Positive Control: Human brain

WB (Western Blot)

Host: Rabbit
Target Name: CHEK2
Sample Type: Human Fetal Muscle
Antibody Dilution: 1.0ug/ml



WB (Western Blot)

Host: Rabbit Target Name: CHEK2 Sample Type: Human Adult Placenta Antibody Dilution: 1.0ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-CHEK2 antibody

This is a rabbit polyclonal antibody against CHEK2. It was validated on Western Blot using a cell lysate as a positive control.

Target Description: In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. CHEK2 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. 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 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.

Product Categories/Family for anti-CHEK2 antibody

[Polyclonal](#); [Cell Cycle Proteins](#); [Transcription Regulation](#); [Chromatin & Nuclear Signaling](#); [Signal Transduction](#); [DNA Damage & Repair](#); [Disease Related](#); [Meiosis/Mitosis/Cell Cycle](#); [Phosphorylation](#); [Transcription Factors](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	54112407
NCBI GeneID	11200
NCBI Accession #	NP_001005735
NCBI GenBank Nucleotide #	NM_001005735
UniProt Accession #	B7ZBF3 ; O96017
Molecular Weight	65kDa
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

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/chek2-antibody-western-blot-elisa/197103>