

Rabbit anti-Human Phospho-CHEK1 (S317) Polyclonal Antibody | anti-CHEK1 antibody

Phospho-CHEK1 (S317) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285457	Rabbit	Human	Immunohistochemistry, Western Blot, ELISA, Dot Blot

PRODUCT SYNONYMS

Phospho-CHEK1 (S317); Polyclonal Antibody; Phospho-CHEK1 (S317) Antibody; Serine/threonine-protein kinase Chk1; CHK1 checkpoint homolog; Cell cycle checkpoint kinase; Checkpoint kinase-1; CHEK1; CHK1; anti-CHEK1 antibody

PRODUCT SPECIFICATIONS

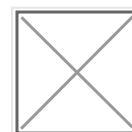
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CHK1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S317 of human CHK1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Length	442
Applicable Applications for anti-CHEK1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, DB (Dot Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)

The anti-Phospho-CHEK1-S317 Pab is used in Western blot for detection in, from left to right, Jurkat, A2058, HeLa, and HL60 tissue lysates.



DB (Dot Blot)

Dot blot analysis of anti-Phospho-CHEK1-S317 Antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibodies working concentration was 0.5ug per ml.

ADDITIONAL INFORMATION

Related Product Information for anti-CHEK1 antibody	Checkpoint pathways control the order and timing of cell cycle transitions and ensure that critical events, such as DNA replication and chromosome segregation, are completed with high fidelity. The <i>S. pombe</i> Chk1 gene encodes a protein kinase that is required for the DNA damage checkpoint. Antibodies against CHEK1 recognized a 54-kD protein on immunoblots of mammalian cell extracts. However, CHEK1 is modified in response to DNA damage. In vitro, CHEK1 directly phosphorylated a regulator of CDC2 tyrosine phosphorylation, CDC25C. In response to DNA damage, CHEK1 phosphorylates and inhibits CDC25C, thus preventing activation of the CDC2-cyclin B complex and mitotic entry. CHEK1 directly phosphorylates CDC25A during an unperturbed cell cycle, and that phosphorylation of CDC25A by CHEK1 is required for cells to delay cell cycle progression in response to double-strand DNA breaks.
Product Categories/Family for anti-CHEK1 antibody	Cancer; Phospho Antibodies
References	Kramer, A., et al., Nat. Cell Biol. 6(9):884-891 (2004). Xu, X., et al., J. Biol. Chem. 279(33):34091-34094 (2004). Ng, C.P., et al., J. Biol. Chem. 279(10):8808-8819 (2004). Chen, M.S., et al., Mol. Cell. Biol. 23(21):7488-7497 (2003). Groth, A., et al., EMBO J. 22(7):1676-1687 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	166295194
NCBI GeneID	1111
NCBI Accession #	NP_001107593.1; NP_001107594.1; NP_001231775.1; NP_001265.2
NCBI GenBank Nucleotide #	NM_001114121.2
UniProt Accession #	O14757; A8K934; B4DDD0; B4DSK3; B5BTY6; F5H7S4; H2BI51
Molecular Weight	54434
NCBI Official Full Name	serine/threonine-protein kinase Chk1 isoform 1
NCBI Official Synonym Full Names	checkpoint kinase 1
NCBI Official Symbol	CHEK1
NCBI Official Synonym Symbols	CHK1
NCBI Protein Information	serine/threonine-protein kinase Chk1
UniProt Protein Name	Serine/threonine-protein kinase Chk1
UniProt Gene Name	CHEK1
UniProt Synonym Gene Names	CHK1
UniProt Entry Name	CHK1_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.

