

Chk1 Recombinant Antibody | CHEK1 recombinant antibody

Phospho-Chk1 (Ser317) Antibody, Rabbit MAb

CATALOG # AAA259507	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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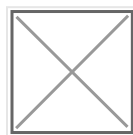
PRODUCT SYNONYMS

Chk1; Monoclonal Recombinant Antibody; Phospho-Chk1 (Ser317) Antibody; Rabbit MAb; checkpoint kinase 1; Anti-CHK1 Antibody; Anti-OZEMA21 Antibody; CHEK1 recombinant antibody

PRODUCT SPECIFICATIONS

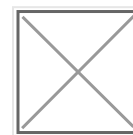
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	0045
Specificity	Human Phospho-Chk1 (Ser317)
Purity/Purification	Protein A
Form/Format	Liquid; 10 mM sodium HEPES, 150 mM NaCl, 100ug/mL BSA, 50% glycerol, pH 7.5
Applicable Applications for CHEK1 recombinant antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic phosphopeptide corresponding to residues around Ser317 of human Chk1.
Preparation	This antibody was obtained from a rabbit immunized with a synthetic phosphopeptide corresponding to residues around Ser317 of human Chk1.
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from serum-starved HEK-293, untreated (-)(line A); treated with UV (1 h; +)(line B); treated with UV and lambda-phosphatase (line C) using Phospho-Chk1 (Ser317) rabbit monoclonal Antibody (#AAA259507) at 1:2000 dilution.(Validation Experiment



WB (Western Blot)

Western blot analysis of extracts from serum-starved HEK293, untreated (line A); treated with UV (1 h), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-Chk1 (Ser317) rabbit monoclonal Antibody (#AAA259507) at 1:2000 dilution.(Validation Experiment



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human testis, untreated (left) or lambda phosphatase-treated (right), using Phospho-Chk1 (Ser317) Antibody, Rabbit Monoclonal (#AAA259507) at 1:1000 dilution.



WB (Western Blot)

Western blot analysis of extracts from serum-starved HEK293, untreated (-) or treated with UV (1 h; +), using Phospho-Chk1 (Ser317) rabbit Monoclonal Antibody (#AAA259507) at 1:2000 dilution (upper) or Beta-Tubulin Loading Control Antibody, Rabbit MAb (Chimeric) at 1:40000 dilution (lower).

ADDITIONAL INFORMATION

Related Product Information for CHEK1 recombinant antibody	CHK1/CHEK1 contains 1 protein kinase domain and belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family, NIM1 subfamily. It is a member of checkpoint kinases (Chks). Chks Checkpoint kinases (Chks) are serine/threonine kinases that are involved in the control of the cell cycle. There are two subtypes of chks that have so far been identified, CHK1/CHEK1 and Chk2. They are essential components to delay cell cycle progression in normal and damaged cells and can act at all three cell cycle checkpoints. Chks are activated by phosphorylation. ATR kinase phosphorylates CHK1/CHEK1 in response to single strand DNA breaks and ATM kinase phosphorylates Chk2 in response to double strand breaks. Chks phosphorylate Cdc25 phosphatase at Ser216, which leads to Cdc25 sequestration in the cytoplasm. Chks have a role in the physiological stress of hypoxia/reoxygenation. CHK1/CHEK1 is required for checkpoint mediated cell cycle arrest in response to DNA damage or the presence of unreplicated DNA. CHK1/CHEK1 may also negatively regulate cell cycle progression during unperturbed cell cycles.
Product Categories/Family for CHEK1 recombinant antibody	p53 Pathway; Cancer Drug Targets Tumor Suppressors
References	Che. P. e. al. (2000. Th. 1.. . crista. structur. o. huma. cel. cycl. checkpoin. kinas. CHK1/CHEK1. Implication. fo. CHK1/CHEK. regulation. Cell. 10. (6). 681-92. Sanche. Y. e. al. (1997. Conservatio. o. th. CHK1/CHEK. checkpoin. pathwa. i. mammals. linkag. o. DN. damag. t. Cd. regulatio. throug. Cdc25. Science. 27. (5331). 1497-501. Flagg. G. e. al. (1998. Atm-dependen. interaction. o. . mammalia. CHK1/CHEK. homolo. wit. meioti. chromosomes. Cur. Biol. . (12). 977-86. Chin. CC. e. al. (2005. Claspin. . regulato. o. CHK1/CHEK. i. DN. replicatio. stres. pathway. DN. Repair. . (8-9). 1033-7.

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/chk1-recombinant-antibody-clone-0045-immunohistochemistry-western-blot-elisa/259507>