

Anti-Phospho-Chk1 (S317) Antibody [PSH03-84] - BSA and Azide free

HA750909



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 54 kDa
Clone number:	PSH03-84

Description: Checkpoint kinases (Chks) are protein kinases that are involved in cell cycle control. Two checkpoint kinase subtypes have been identified, Chk1 and Chk2. Chk1 is a central component of genome surveillance pathways and is a key regulator of the cell cycle and cell survival. Chk1 is required for the initiation of DNA damage checkpoints and has recently been shown to play a role in the normal (unperturbed) cell cycle. Chk1 impacts various stages of the cell cycle including the S phase, G2/M transition and M phase. In addition to mediating cell cycle checkpoints, Chk1 also contributes to DNA repair processes, gene transcription, egg production, embryo development, cellular responses to HIV infection and somatic cell viability.

Immunogen: Synthetic phospho-peptide corresponding to residues surrounding Ser317 of Human Chk1.

Positive control: HeLa cell lysate, HeLa treated with UV for 1 hour cell lysate, C6 cell lysate, C6 treated with 100nM Calyculin A for 30 minutes cell lysate, HeLa cells treated with or without UV for 40 minutes, NIH/3T3 cell lysate, NIH/3T3 treated with UV for 40 minutes add 1mM Sodium orthovanadate and recovery for 30 minutes cell lysate, L-929 treated with UV for 3 hours cell lysate.

Subcellular location: Nucleus, Chromosome, Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.

Database links: SwissProt: O14757 Human | O35280 Mouse | Q91ZN7 Rat

Recommended Dilutions:

WB	1:1,000
IHC-P	1:1,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

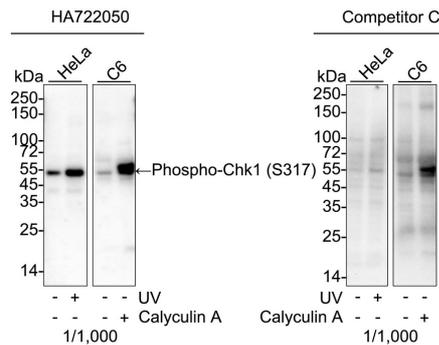
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Images

Fig1: Western blot analysis of Phospho-Chk1 (S317) on different lysates with Rabbit anti-Phospho-Chk1 (S317) antibody (HA750909) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution.



Lane 1: HeLa cell lysate

Lane 2: HeLa treated with UV for 1 hour cell lysate

Lane 3: C6 cell lysate

Lane 4: C6 treated with 100nM Calyculin A for 30 minutes cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 54 kDa

Observed band size: 54 kDa

Exposure time: 43 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA750909) at 1/1,000 dilution and competitor's antibody at 1/1,000 dilution were used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

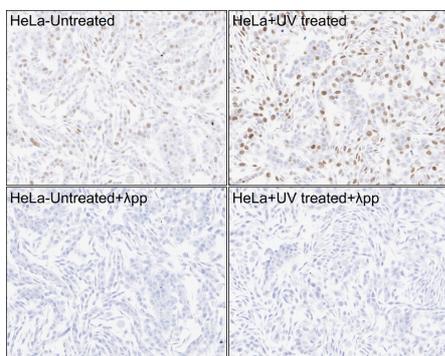


Fig2: Immunohistochemical analysis of paraffin-embedded HeLa cells treated with or without UV for 40 minutes with Rabbit anti-Phospho-Chk1 (S317) antibody (HA750909) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA750909) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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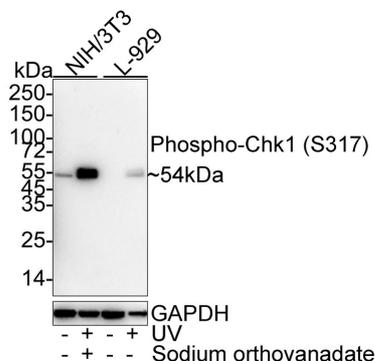
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Fig3: Western blot analysis of Phospho-Chk1 (S317) on different lysates with Rabbit anti-Phospho-Chk1 (S317) antibody (HA750909) at 1/1,000 dilution.



Lane 1: NIH/3T3 cell lysate

Lane 2: NIH/3T3 treated with UV for 40 minutes add 1mM Sodium orthovanadate and recovery for 30 minutes cell lysate

Lane 3: L-929 cell lysate

Lane 4: L-929 treated with UV for 3 hours cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 54 kDa

Observed band size: 54 kDa

Exposure time: 1 minute; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750909) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Klomp JE et al. CHK1 protects oncogenic KRAS-expressing cells from DNA damage and is a target for pancreatic cancer treatment. *Cell Rep.* 2021 Nov
2. Zhu X et al. TRIM21 suppresses CHK1 activation by preferentially targeting CLASPIN for K63-linked ubiquitination. *Nucleic Acids Res.* 2022 Feb

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