For Research Use Only

Phospho-Chk1 (Ser317) Polyclonal antibody

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Catalog Number:28807-1-AP 1 Publications

Basic Information

Catalog Number:
28807-1-AP

Size:
100ul , Concentration: 450 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC004202

GeneID (NCBI):
1111

Full Name:
CHK1 checkpoint homolog (S. pombe)

Calculated MW:
54 kDa

Observed MW:
55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human

Positive Controls:

WB : UV treated HEK-293T cells,

Background Information

The checkpoint kinase 1 (Chk1) is a conserved kinase that imposes cell cycle delays in response to impediments to DNA replication. Chk1 kinase is downstream of the ATR kinase. ATR phosphorylates Chk1 kinase and other proteins to ensure replication is being blocked as to avoid replication fork collapse and DNA damage. Activation of Chk1 involves phosphorylation at Ser317 and Ser345 by ATM/ATR, followed by autophosphorylation of Ser296. In vitro Chk1 binds to and phosphorylate the dual-specificity protein phosphatases Cdc25A, Cdc25B, and Cdc25C, which control cell cycle transitions by dephosphorylating cyclin-dependent kinases. (PMID:22941630, PMID: 32571801, PMID:19276361)

Notable Publications

Author	Pubmed ID	Journal	Application
Dandan Lin	37992763	Antiviral Res	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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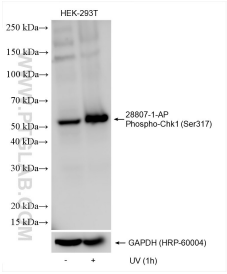
Selected Validation Data



Non-treated HEK-293T and UV treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 28807-1-AP (Phospho-Chk1 (Ser317) antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.