For Research Use Only

Phospho-CHEK2 (Thr68) Polyclonal antibody

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Catalog Number:29012-1-AP 5 Publications

Basic Information

Catalog Number:
29012-1-AP

Size:
450 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC004207

GeneID (NCBI):
11200

UNIPROT ID:
O96017

Full Name:
CHK2 checkpoint homolog (S. pombe)

Calculated MW:
61 kDa

Observed MW:
65 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human

Positive Controls:

WB : MMS treated PC-3 cells,

Background Information

Serine/threonine-protein kinase Chk2 (CHEK2) is a serine/threonine kinase which is activated upon DNA damage and is implicated in pathways that govern DNA repair, cell cycle arrest or apoptosis in response to the initial damage. ATM phosphorylates CHEK2 on T68. Phosphorylation on T68 and subsequent full activation of CHEK2 was shown to require priming phosphorylation on adjacent residues by Polo-like kinase 3 (PLK3) and the dualspecificity tyrosine and serine/threoninekinase TTK/hMPS1. Additionally TTK appears to phosphorylate T68. Phosphorylation of T68 promotes the binding of the N-terminal SQ/TQ-rich cluster of one CHEK2 molecule with the FHA domain of another CHEK2 molecule. (PMID: 28553140, PMID: 18004398, PMID: 33322746)

Notable Publications

Author	Pubmed ID	Journal	Application
Xin Wen	36249018	Front Oncol	WB
Zhili Xia	36185307	Front Oncol	WB
Chao Mei	35187743	Cell Prolif	WB

Storage

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

For technical support and original validation data for this product please contact:
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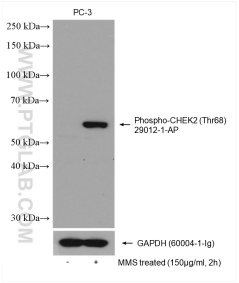
Selected Validation Data



Non-treated PC-3 and MMS treated PC-3 cells were subjected to SDS PAGE followed by western blot with 29012-1-AP (Phospho-CHEK2 (Thr68) antibody) at dilution of 1:1000 incubated at room temperature for 4℃ overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.