For Research Use Only

Phospho-CHEK2 (Thr68) Recombinant antibody, PBS Only

Catalog Number:81740-1-PBS

proteintech®
Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
81740-1-PBS

Size:
1mg/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:
Protein A purification

CloneNo.:
1L2

Applications

Tested Applications:
WB, FC (Intra), Indirect ELISA

Species Specificity:
human

Background Information

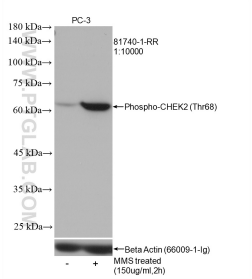
Serine/threonine-protein kinase Chk2 (CHEK2) is a serine/threonine kinase which is activated upon DNA damage and is implicated in pathways that govern DNA repair, cell cycle arrest or apoptosis in response to the initial damage. ATM phosphorylates CHEK2 on T68. Phosphorylation on T68 and subsequent full 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)

Storage

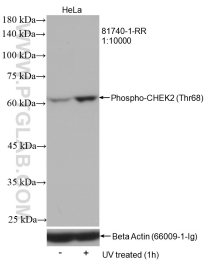
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

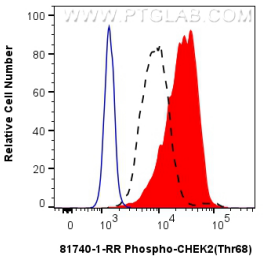
Selected Validation Data



Non-treated PC-3 and MMS treated PC-3 cells were subjected to SDS PAGE followed by western blot with 81740-1-RR (Phospho-CHEK2 (Thr68) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin antibody as loading control. This data was developed using the same antibody clone with 81740-1-PBS in a different storage buffer formulation.



Non-treated HeLa and UV treated HeLa cells were subjected to SDS PAGE followed by western blot with 81740-1-RR (Phospho-CHEK2 (Thr68) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin antibody as loading control. This data was developed using the same antibody clone with 81740-1-PBS in a different storage buffer formulation.



1X10^6 PC-3 cells untreated (dashed lines) or treated with MMS which intracellularly stained with 0.06 ug Phospho-CHEK2 (Thr68) Recombinant antibody (81740-1-RR, Clone:1L2) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody