Phospho-Chk1 (Ser345) Polyclonal Antibody

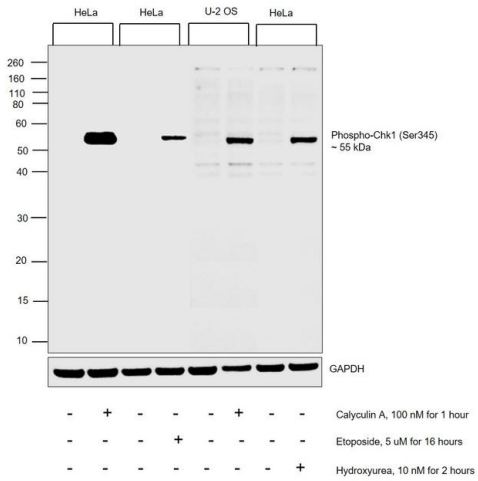
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human CHEK1(Accession O14757), corresponding to amino acid residues around phosphorylated Ser345.
Form	Liquid
Concentration	1 mg/mL
Purification	sequential chromatography
Storage buffer	PBS, pH 7.4, with 50% glycerol
Contains	0.02% sodium azide
Storage conditions	-20°C
RRID	AB_2816165

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunohistochemistry (IHC)	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1:100-1:500	-

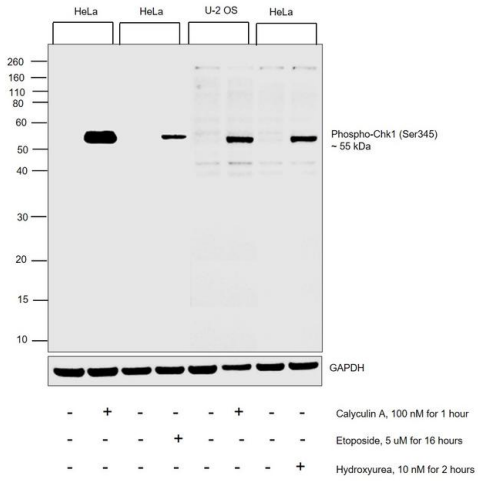
Product Specific Information

Antibody detects endogenous levels of Chk1 only when phosphorylated at Serine 345.

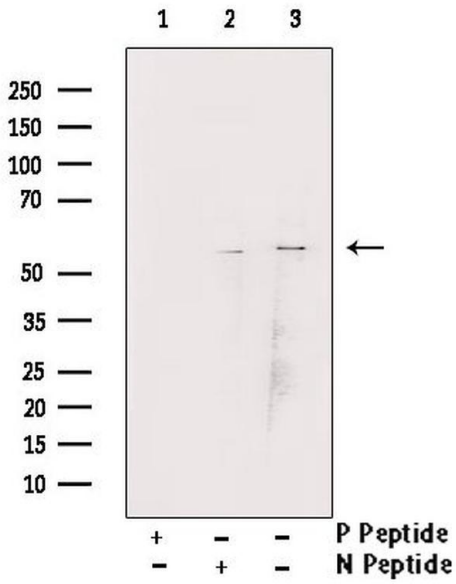
Product Images For Phospho-Chk1 (Ser345) Polyclonal Antibody



Phospho-Chk1 (Ser345) Antibody (PA5-104692)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Phospho-Chk1 (Ser345) Polyclonal Antibody (Product # PA5-104692), shows induction of proteins in HeLa cells upon Calyculin A, Etoposide and Hydroxyurea treatments and in U-2 OS cells upon Calyculin A treatment. {TM}



Phospho-Chk1 (Ser345) Antibody (PA5-104692) in WB
Western blot was performed using Anti-Phospho-Chk1 (Ser345) Polyclonal Antibody (Product # PA5-104692) and a 55 kDa band corresponding to Phospho-Chk1 (Ser345) was observed to be induced upon Calyculin A, Etoposide and Hydroxyurea treatments in HeLa cells and Calyculin A treatment in U-2 OS cells. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), HeLa treated with Calyculin A (100 nM for 1 hour) (Lane 2), HeLa (Lane 3), HeLa treated with Etoposide (5 µM for 16 hours) (Lane 4), U-2 OS (Lane 5), U-2 OS treated with Calyculin A (100 nM for 1 hour) (Lane 6), HeLa (Lane 7) and HeLa treated with Hydroxyurea (10 mM for 2 hours) (Lane 8) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23002) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036,1:20,000 dilution) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Atto Ultimate Sensitivity Substrate (Product # A38556).



Phospho-Chk1 (Ser345) Antibody (PA5-104692) in WB
Western blot analysis of Phospho-Chk1 (Ser345) in HT-29 cells lysate (left lane: treated with blocking peptide). Samples were incubated with Phospho-Chk1 (Ser345) polyclonal antibody (Product # PA5-104692).