

## Anti-CHEK1 (Serine/threonine-protein kinase Chk1) Polyclonal Antibody

Cat. #: 60B721 Pho Ab

### Description:

The CHEK1 (Serine/threonine-protein kinase Chk1) is involved in cell cycle arrest when DNA damage has occurred or when unligated DNA is present. It binds to and phosphorylates CDC25A, CDC25B and CDC25C. Phosphorylation of CDC25C creates a binding site for 14-3-3 protein which inhibits CDC25C. This prevents activation of the CDC2-cyclin B complex and prevents mitotic entry. The CHEK1 phosphorylates CDC25C on serine-216.

### Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to Middle residues of human CHEK1 (Serine/threonine-protein kinase Chk1)

### References

Sanchez, Y., et al, *Science* 277 (5331), 1497-1501 (1997)  
Flaggs, G., et al, *Curr. Biol.* 7 (12), 977-986 (1997)  
Zhao, H. and Piwnicka-Worms, H., *Mol. Cell. Biol.* 21 (13), 4129-4139 (2001)  
Wang, Y. and Qin, J., *Proc. Natl. Acad. Sci. U.S.A.* 100 (26), 15387-15392 (2003)

Clone Number:

Isotype:

Species: Human

Storage and Stability: at -20°C

### Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

### Preparation:

Purified by antigen-specific affinity chromatography.

### Applications :

ELISA

Western Blotting (1 µg/ml for 2hrs)