

## Chk2(Phospho-Ser19) Rabbit Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP07757
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	100ul, 50ul, 20ul
<b>Immunogen</b>	Synthesized phosho peptide around human Chk2 (Ser19)
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human, Rat, Mouse
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Chk2
<b>Synonyms</b>	Chk2 ;Ser19; Serine/threonine-protein kinase Chk2; EC 2.7.11.1; CHK2 checkpoint homolog; Cds1 homolog; Hucds1; hCds1; Checkpoint kinase 2

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

In response to DNA damage and replication blocks| cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated| the encoded protein is known to inhibit CDC25C phosphatase| preventing entry into mitosis| and has been shown to stabilize the tumor suppressor protein p53| leading to cell cycle arrest in G1. In addition| this protein interacts with and phosphorylates BRCA1| allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni syndrome| a highly penetrant familial cancer phenotype usually associated with inherited mutati

### Recommended Dilution

WB: 1: 1000 - 1: 2000

Not yet tested in other applications.

### Images

No images.

### Storage

-20°C for 1 year

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