

## Anti-Chk1 (phospho-S345) CHEK1 Antibody

Catalog Number: A01060S345

### About CHEK1

Negative regulator of YAP1 in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS1 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. Acts as a tumor suppressor which plays a critical role in maintenance of ploidy through its actions in both mitotic progression and the G1 tetraploidy checkpoint. Negatively regulates G2/M transition by down-regulating CDK1 kinase activity. Involved in the control of p53 expression. Affects cytokinesis by regulating actin polymerization through negative modulation of LIMK1. May also play a role in endocrine function.

Tao W., Nat. Genet. 21:177-181(1999).

Nishiyama Y., FEBS Lett. 459:159-165(1999).

The MGC Project Team, Genome Res. 14:2121-2127(2004).

### Overview

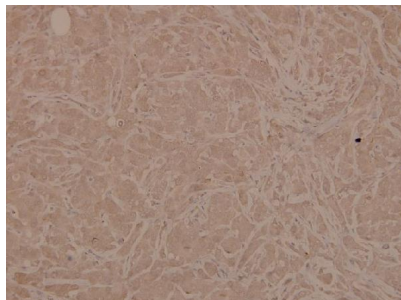
Product Name	Anti-Chk1 (phospho-S345) CHEK1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Chk1 (phospho-S345) CHEK1 Antibody catalog # A01060S345. Tested in WB,IHC applications. This antibody reacts with Human,Mouse,Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O14757

### Technical Details

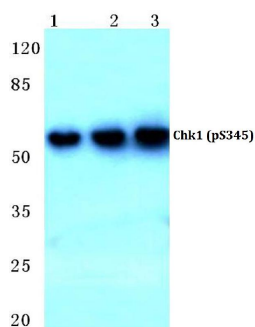
Immunogen	Synthetic phosphopeptide derived from human Chk1 around the phosphorylation site of Serine 345.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Cross Reactivity	No cross reactivity with other proteins.

Isotype	IgG
Form	Liquid
Concentration	1mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:500-1:1000</p> <p>IHC: 1:50-1:200</p>

## Anti-Chk1 (phospho-S345) CHEK1 Antibody (A01060S345) Images



Immunohistochemistry (IHC) analyzes of p-Chk1 (S345) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.



Western blot (WB) analysis of p-Chk1 (S345) polyclonal antibody at 1:500 dilution  
Lane1:Hela cell lysate  
Lane2:Mouse brain tissue lysate  
Lane3:Rat brain tissue lysate

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