

Phospho-CDK2 (Y15) Recombinant Antibody



RACO0088

Product Information

Size:

50ul

Reactivity:

Human

Source:

Human

Isotype:

Rabbit IgG

Applications:

ELISA, WB, IHC, IP

Recommended dilutions:

WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000

Protein Background:

Serine/threonine-protein kinase involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis. Phosphorylates CTNNB1, USP37, p53/TP53, NPM1, CDK7, RB1, BRCA2, MYC, NPAT, EZH2. Triggers duplication of centrosomes and DNA. Acts at the G1-S transition to promote the E2F transcriptional program and the initiation of DNA synthesis, and modulates G2 progression; controls the timing of entry into mitosis/meiosis by controlling the subsequent activation of cyclin B/CDK1 by phosphorylation, and coordinates the activation of cyclin B/CDK1 at the centrosome and in the nucleus. Crucial role in orchestrating a fine balance between cellular proliferation, cell death, and DNA repair in human embryonic stem cells (hESCs).

Gene ID:

CDK2

Uniprot

P24941

Synonyms:

Cyclin-dependent kinase 2, Cell division protein kinase 2, p33 protein kinase, CDK2, CDKN2

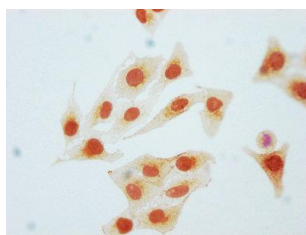
Immunogen:

A synthesized peptide derived from human Phospho-CDK2 (Y15).

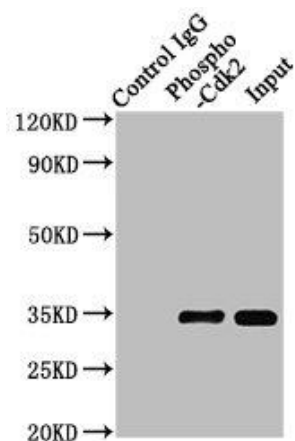
Storage:

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



Immunocytochemistry analysis of RACO0088 diluted at 1:80 and staining in HeLa cells (treated with Pervanadate) performed on a Leica BondTM system. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

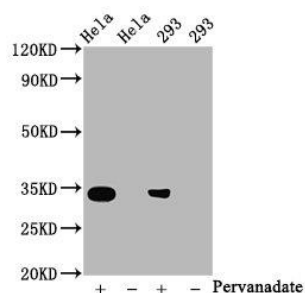


Immunoprecipitating Phospho-CDK2 in HeLa whole cell lysate) (treated with Pervanadate) Lane 1: Rabbit control IgG(1μg)instead of RACO0088 in HeLa whole cell lysate) (treated with Pervanadate)

For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: RACO0088(3μg)+ HeLa whole cell lysate) (treated with Pervanadate)(1mg)

Lane 3: HeLa whole cell lysate) (treated with Pervanadate)20μg)



Western Blot

Positive WB detected in(HeLa whole cell lysate) 293 whole cell lysate) (treated with Pervanadate)or not)

All lanes: Phospho-CDK2 antibody at 0.8μg/ml

Secondary

Goat polyclonal to rabbit IgG at 1:50000 dilution

Predicted band size: 34 KDa

Observed band size: 34 KDa