CDK4 Recombinant Antibody

RACO0272

Product Information

Size:

50ul

Reactivity:

Human

Source:

Homo sapiens (Human)

Isotype:

Rabbit IgG

Applications:

ELISA, WB, IP

Recommended dilutions:

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

Protein Background:

Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Gene ID:

CDK4

Uniprot

P11802

Synonyms:

Cyclin-dependent kinase 4 (EC 2.7.11.22) (Cell division protein kinase 4) (PSK-J3), CDK4
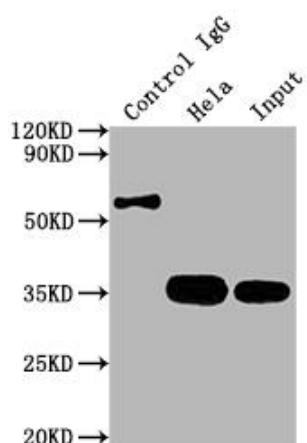
Immunogen:

A synthesized peptide derived from human CDK4.

Storage:

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

Product Images

Immunoprecipitating CDK4 in Hela whole cell lysate) Lane 1: Rabbit control IgG instead of RACO0272 in Hela whole cell lysate)
For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/1500)
Lane 2: RACO0272(2μg)+ Hela whole cell lysate)(500μg)
Lane 3: Hela whole cell lysate) (10μg)
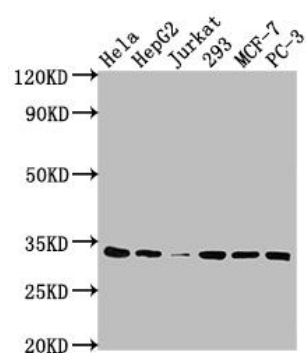
Western Blot
Positive WB detected in(Hela whole cell lysate) HepG2 whole cell lysate) Jurkat whole cell lysate) 293 whole cell lysate) MCF-7 whole cell lysate) PC-3 whole cell lysate) All lanes: CDK4 antibody at 1:2000
Secondary
Goat polyclonal to rabbit IgG at 1:50000 dilution
Predicted band size: 34, 21 kDa
Observed band size: 34 kDa