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Recombinant anti-CDK4 antibody

Images



Overview

Quantity:	100 μL
Target:	CDK4
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This CDK4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	A synthesized peptide derived from human CDK4
Clone:	8F2
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

Target Details

Target:	CDK4
Alternative Name:	CDK4 (CDK4 Products)
Background:	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-cycledependent 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.

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

UniProt: P11802

Pathways: Cell Division Cycle, Mitotic G1-G1/S Phases, Regulation of Cell Size

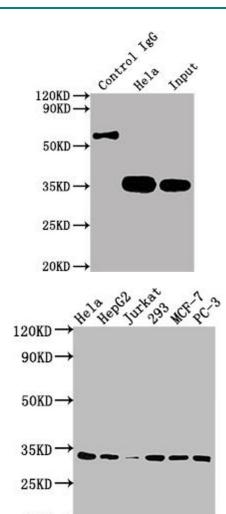
For Research Use only

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IP:1:200-1:1000, Restrictions:

Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



 $20KD \rightarrow$

Western Blotting

Image 1. Immunoprecipitating CDK4 in Hela whole cell lysate Lane 1: Rabbit control IgG instead of ABIN7127418 in Hela whole cell lysate. For western blotting,a HRP-conjugated Protein G antibody was used as the secondary antibody (1/1500) Lane 2:ABIN7127418(2 μ g)+ Hela whole cell lysate(500 μ g) Lane 3: Hela whole cell lysate (10 μ g)

Western Blotting

Image 2. 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 lgG at 1/50000 dilution Predicted band size: 34, 21 kDa Observed band size: 34 kDa