

Anti-CDK4 Antibody (8K220)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8K220
Purification:	Affinity-chromatography

Applications

	Western Blot
	-Positive WB detected in: Jurkat whole cell lysate, Hela whole cell lysate, 293 whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, K562 whole cell lysate, A549 whole cell lysate
Verified Activity:	-All lanes: CDK4 antibody at 1:1500 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 34, 21 kDa -Observed band size: 34 kDa
Application:	ELISA,WB
Recommended	WB:1:500-1:5000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human CDK4
Antigen Species:	Human
Gene ID:	1019
Uniprot ID:	P11802
Synonyms:	cyclin-dependent kinase 4;CMM3;PSK-J3
Biology Area:	Isotype/Loading Controls, Epigenetics and Nuclear Signaling, Cancer, Cell biology

Research 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 mitogenic 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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