



Anti-CDK4 monoclonal antibody, clone FQS3624Z (DCABH-9458)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit monoclonal to Cdk4
Antigen Description	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.
Immunogen	A synthetic peptide corresponding to residues on the N-terminus of human CDK4.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	FQS3624Z
Conjugate	Unconjugated
Applications	WB, IP, Flow Cyt
Positive Control	Cell lysates from: HeLa, MCF-7, Romas and K562 cell lines.
Format	Liquid
Size	100 µl

Buffer	pH: 7.40; Preservative: 0.01% Sodium azide; Constituents: 50% Glycerol, 0.05% BSA
Storage	store at -20°C. Avoid freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	CDK4 cyclin-dependent kinase 4 [Homo sapiens]
Official Symbol	CDK4
Synonyms	CDK4; cyclin-dependent kinase 4; PSK J3; cell division protein kinase 4; CMM3; PSK-J3; MGC14458;
Entrez Gene ID	1019
Protein Refseq	NP_000066
UniProt ID	A0A024RBB6
Chromosome Location	12q13
Pathway	ATF-2 transcription factor network, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity;