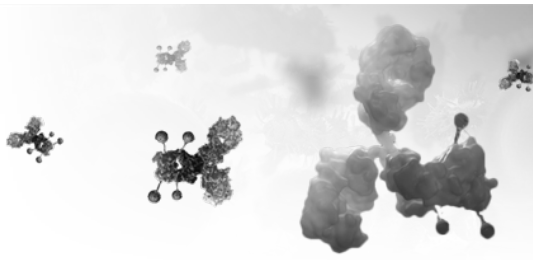

Anti-CDK4 (full length) polyclonal antibody (DPABH-14195)

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

PRODUCT INFORMATION

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 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.
Immunogen	Recombinant full length protein corresponding to Human Cdk4 aa 2-303. (With tag; BC003644).Sequence: ATSRYEPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGGLPI STVREVALLRRLEAFEHPNVVRLMDVCATSRTDREIKVTLVFEHVDQDLR TYLDKAPPPGLPAETIKDLMRQFLRGLDFLHANCIVHRDLKPENILVTSG G
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, IHC-P
Format	Liquid

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Size	100 µl
Buffer	pH: 7.30; Constituents: 50% Glycerol, 49% PBS. Note: PBS without Mg2+ and Ca3+.
Preservative	0.05% Sodium Azide
Storage	Shipped at 4°C. Store at 4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

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; B Cell Receptor Signaling Pathway; Bladder cancer; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Cell Cycle; Cell Cycle, Mitotic;
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity;

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