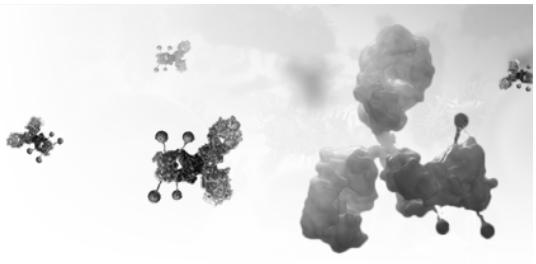

Anti-CCND3 polyclonal antibody (DPABH-02417)

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

PRODUCT INFORMATION

Antigen Description	Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex 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 substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 250 to the C-terminus of Human Cyclin D3.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB, ICC/IF
Format	Liquid
Size	100 µg

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Buffer	pH: 7.40; Constituent: PBS
Preservative	0.02% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	CCND3 cyclin D4 [Homo sapiens]
Official Symbol	CCND3
Synonyms	CCND3; cyclin D3; G1/S-specific cyclin-D3; D3-type cyclin; G1/S-specific cyclin D3;
Entrez Gene ID	896
Protein Refseq	NP_001129489.1
UniProt ID	P30281
Pathway	B Cell Receptor Signaling Pathway; Cell Cycle, Mitotic; Cell cycle; Coregulation of Androgen receptor activity
Function	cyclin-dependent protein serine/threonine kinase activity; protein binding; protein kinase binding;

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