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CCND3 Antibody (C-term S274)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20418b

Product Information

Application	WB, IHC-P, E
Primary Accession	P30281
Other Accession	P30282, Q3MHH5
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB43029
Calculated MW	32520
Antigen Region	252-281

Additional Information

Gene ID	896
Other Names	G1/S-specific cyclin-D3, CCND3
Target/Specificity	This CCND3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 252-281 amino acids from the C-terminal region of human CCND3.
Dilution	WB~~1:1000 IHC-P~~1:100 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CCND3 Antibody (C-term S274) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCND3 {ECO:0000303|PubMed:1386336, ECO:0000312|HGNC:HGNC:1585}
Function	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

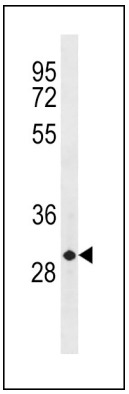
(PubMed:8114739). Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase (PubMed:8114739). Hypophosphorylates RB1 in early G(1) phase (PubMed:8114739). Cyclin D- CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals (PubMed:8114739). Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed:16782892). Shows transcriptional coactivator activity with ATF5 independently of CDK4 (PubMed:15358120).

Cellular Location Nucleus. Cytoplasm

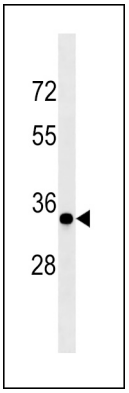
Background

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.

Images

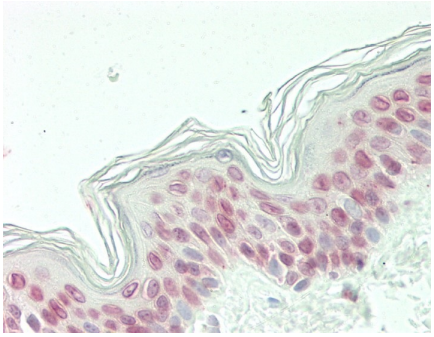


CCND3 Antibody (C-term S274) (Cat. #AP20418b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the CCND3 antibody detected the CCND3 protein (arrow).



CCND3 Antibody (C-term S274) (Cat. #AP20418b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the CCND3 antibody detected the CCND3 protein (arrow).

Formalin-fixed and paraffin-embedded H.skin tissue reacted with CCND3 Antibody (C-term S274) (Cat#AP20418b).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.