10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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, Rat, Canine, Rabbit
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

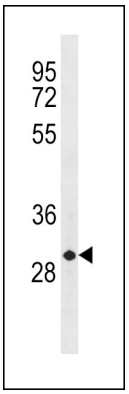
(PubMed:8114739). Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase (PubMed:8114739). Hypophosphorylates RB1 in early G(1) phase (PubMed:8114739). 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

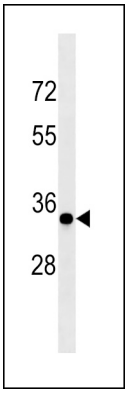
Background

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

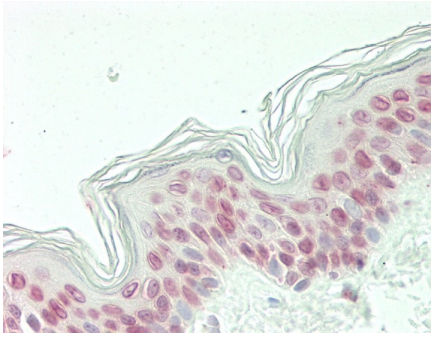


CCND3 Antibody (C-term S274) (Cat. #AP20418b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the CCND3 antibody detected the CCND3 protein (arrow).



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'.