

CCND3 Antibody (C-term S274)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20418b

Specification

CCND3 Antibody (C-term S274) - 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
Calculated MW	32520
Antigen Region	252-281

CCND3 Antibody (C-term S274) - 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

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.

CCND3 Antibody (C-term S274) - 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 mitogenic 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

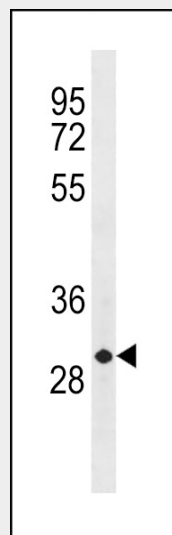
Nucleus. Cytoplasm

CCND3 Antibody (C-term S274) - Protocols

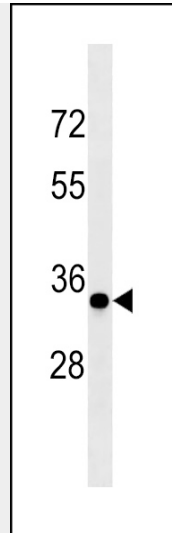
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

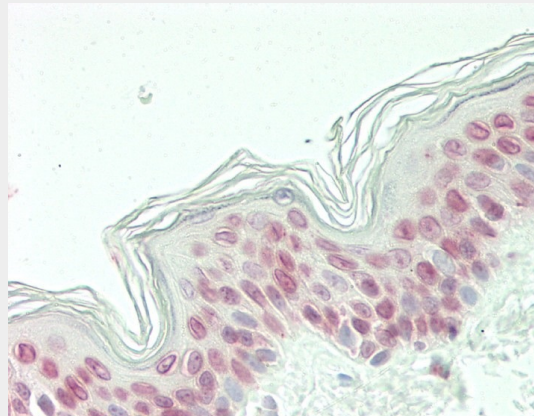
CCND3 Antibody (C-term S274) - Images



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).

CCND3 Antibody (C-term S274) - 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 mitogenic 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.