

CCND3 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI16182**Specification**

CCND3 antibody - C-terminal region - Product Information

Application	IHC, WB
Primary Accession	P30281
Other Accession	NM_001760 , NP_001751
Reactivity	Human, Mouse, Rat, Pig, Sheep, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Pig, Chicken, Sheep, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33kDa kDa

CCND3 antibody - C-terminal region - Additional Information**Gene ID** 896**Other Names**

G1/S-specific cyclin-D3, CCND3

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CCND3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CCND3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CCND3 antibody - C-terminal region - 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).

[8114739](http://www.uniprot.org/citations/8114739)). Cyclin D- CDK4 complexes are major integrators of various mitogenic and antimitogenic signals (PubMed: [8114739](http://www.uniprot.org/citations/8114739)). Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed: [16782892](http://www.uniprot.org/citations/16782892)). Shows transcriptional coactivator activity with ATF5 independently of CDK4 (PubMed: [15358120](http://www.uniprot.org/citations/15358120)).

Cellular Location

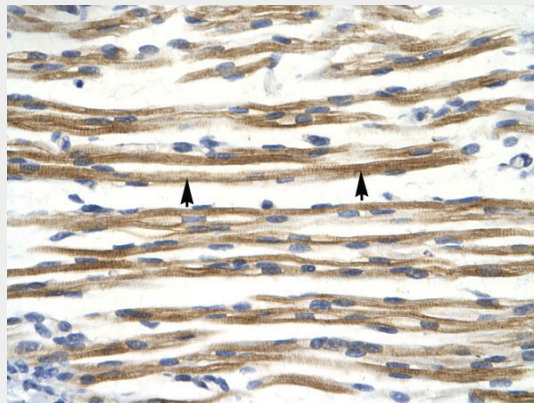
Nucleus. Cytoplasm

CCND3 antibody - C-terminal region - Protocols

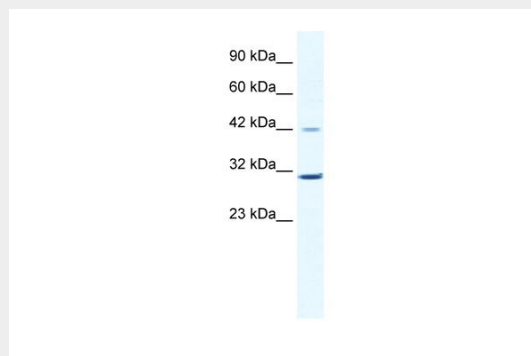
Provided below are standard protocols that you may find useful for product applications.

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

CCND3 antibody - C-terminal region - Images



Human Muscle



WB Suggested Anti-CCND3 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:62500

Positive Control: Jurkat cell lysate

CCND3 is supported by BioGPS gene expression data to be expressed in Jurkat

CCND3 antibody - C-terminal region - 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.

CCND3 antibody - C-terminal region - References

Xiong Y.,et al.Genomics 13:575-584(1992).

Motokura T.,et al.J. Biol. Chem. 267:20412-20415(1992).

Li W.B.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.