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Ccnd1 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11618

Specification

Ccnd1 antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	P25322
Other Accession	NM_007631, NP_031657
Reactivity	**Human, Mouse, Rat, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rat, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**33kDa KDa**

Ccnd1 antibody - C-terminal region - Additional Information

Gene ID 12443

Alias Symbol	**AI327039, Cyl-1, PRAD1, bcl-1, cD1**

Other Names
G1/S-specific cyclin-D1, Ccnd1, Cyl-1

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-Ccnd1 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
Ccnd1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Ccnd1 antibody - C-terminal region - Protein Information

Name Ccnd1

Synonyms Cyl-1

Function
Regulatory component of the cyclin D1-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 a substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and

repressing its transcriptional activity. Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner.

Cellular Location
Nucleus. Cytoplasm {ECO:0000250|UniProtKB:P24385}. Nucleus membrane {ECO:0000250|UniProtKB:P24385}. Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated into the nucleus through interaction with KIP/CIP family members {ECO:0000250|UniProtKB:P24385}

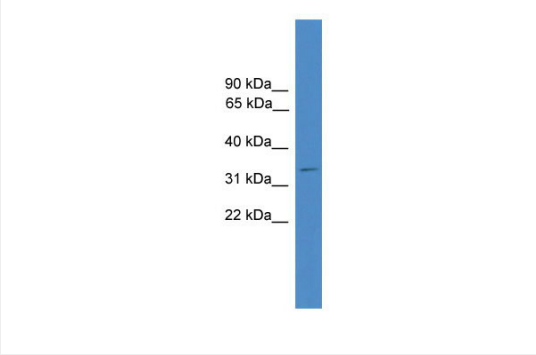
Tissue Location
Expressed in the intestinal epithelium.

Ccnd1 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 Cytomety
- Cell Culture

Ccnd1 antibody - C-terminal region - Images



WB Suggested Anti-Ccnd1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Mouse Small Intestine