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Ccnd1 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11618

Product Information

Application	WB
Primary Accession	P25322
Other Accession	NM_007631, NP_031657
Reactivity	Human, Mouse, Rat, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33429

Additional Information

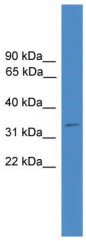
Gene ID	12443
Alias Symbol	AI327039, Cyl-1, PRAD1, bcl-1, cD1
Other Names	G1/S-specific cyclin-D1, Ccnd1, Cyl-1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Ccnd1 antibody concentration 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.

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.

Images



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