

Rabbit anti-Rat Ccnd3 Polyclonal Antibody | anti-Ccnd3 antibody

(RAT) Ccnd3 Antibody (N-term)

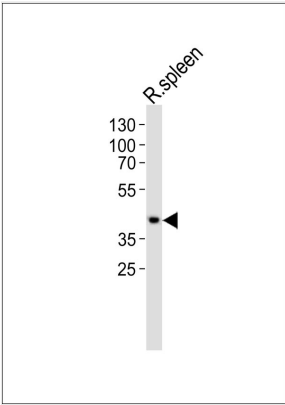
CATALOG # AAA288837	HOST Rabbit	REACTIVITY Rat	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

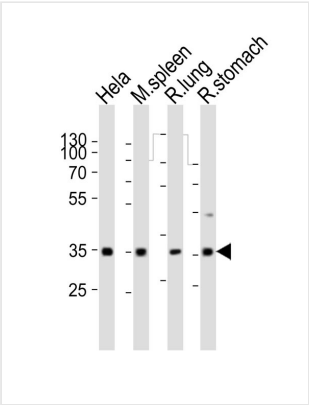
Ccnd3; Polyclonal Antibody; (RAT) Ccnd3 Antibody (N-term); G1/S-specific cyclin-D3; anti-Ccnd3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This rat Ccnd3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 33-66 amino acids from the N-terminal region of rat Ccnd3.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Length	293
Applicable Applications for anti-Ccnd3 antibody	ELISA, WB (Western Blot)
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. 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. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Shows transcriptional coactivator activity with ATF5 independently of CDK4.
Cellular Location	Nucleus {ECO:0000250 UniProtKB:P30281}. Cytoplasm {ECO:0000250 UniProtKB:P30281}
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
Western blot analysis of lysate from rat spleen tissue, using Ccnd3 Antibody (N-term). AAA288837 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



WB (Western Blot)
Western blot analysis of lysates from HeLa cell line, mouse spleen, rat lung, rat stomach tissue (from left to right), using Ccnd3 Antibody (N-term). AAA288837 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-Ccnd3 antibody	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.
Product Categories/Family for anti-Ccnd3 antibody	Cancer; Cell biology
References	Hosokawa Y.,et al.Gene 147:249-252(1994). Yang M.,et al.Gene 181:153-159(1996).

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978619
NCBI GeneID	25193
NCBI Accession #	NP_036898.1
NCBI GenBank Nucleotide #	NM_012766.1
UniProt Accession #	P48961; Q63628
Molecular Weight	32434
NCBI Official Full Name	G1/S-specific cyclin-D3
NCBI Official Synonym Full Names	cyclin D3
NCBI Official Symbol	Ccnd3
NCBI Protein Information	G1/S-specific cyclin-D3
UniProt Protein Name	G1/S-specific cyclin-D3
UniProt Gene Name	Ccnd3
UniProt Entry Name	CCND3_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ccnd3-antibody-western-blot-elisa/288837>