

Anti-Cyclin D1 (pS90) Antibody

Rabbit polyclonal antibody to Cyclin D1 (pS90) Catalog # AP61160

Product Information

Application	WB
Primary Accession	<u>P24385</u>
Other Accession	<u>P25322</u>
Reactivity	Human, Mouse, Rat, Bovine, Dog, SARS
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33729

Additional Information

Gene ID	595
Other Names	BCL1; PRAD1; G1/S-specific cyclin-D1; B-cell lymphoma 1 protein; BCL-1; BCL-1 oncogene; PRAD1 oncogene
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cyclin D1 (pS90). The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CCND1 {ECO:0000303 PubMed:8204893, ECO:0000312 HGNC:HGNC:1582}
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 (PubMed:<u>1827756</u>, PubMed:<u>1833066</u>, PubMed:<u>19412162</u>, PubMed:<u>33854235</u>, PubMed:<u>8114739</u>, PubMed:<u>8302605</u>). 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:<u>1827756</u>, PubMed:<u>1833066</u>, PubMed:<u>19412162</u>, PubMed:<u>8114739</u>, PubMed:<u>8302605</u>). Hypophosphorylates RB1 in early G(1) phase (PubMed:<u>1827756</u>, PubMed:<u>1833066</u>, PubMed:<u>19412162</u>, PubMed:<u>8114739</u>, PubMed:<u>8302605</u>). Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals (PubMed:<u>1827756</u>, PubMed:<u>1833066</u>,

	PubMed: <u>19412162</u> , PubMed: <u>8302605</u>). Also a substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity (PubMed: <u>15241418</u>). Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed: <u>9106657</u>). Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner (PubMed: <u>16569215</u> , PubMed: <u>18417529</u>).
Cellular Location	Nucleus. Cytoplasm. Nucleus membrane. Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cyclin D1 (pS90). The exact sequence is proprietary.

Images



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