

Anti-Cyclin D1 (pS90) Antibody

Rabbit polyclonal antibody to Cyclin D1 (pS90)

Catalog # AP61160

Product Information

Application	WB
Primary Accession	P24385
Other Accession	P25322
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	Recognizes endogenous levels of Cyclin D1 (pS90) protein.
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	<p>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:1827756, PubMed:1833066, PubMed:19412162, PubMed:33854235, PubMed:8114739, PubMed:8302605). 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:1827756, PubMed:1833066, PubMed:19412162, PubMed:8114739, PubMed:8302605).</p> <p>Hypophosphorylates RB1 in early G(1) phase (PubMed:1827756, PubMed:1833066, PubMed:19412162, PubMed:8114739, PubMed:8302605).</p> <p>Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals (PubMed:1827756, PubMed:1833066, PubMed:19412162, PubMed:8302605). Also a substrate for SMAD3,</p>

phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity (PubMed:[15241418](#)). Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex (PubMed:[9106657](#)). Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and INS promoters in a cell cycle-independent manner (PubMed:[16569215](#), PubMed:[18417529](#)).

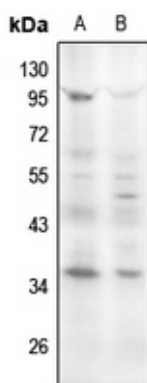
Cellular Location

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



Western blot analysis of Cyclin D1 (pS90) expression in HepG2 (A), EC9706 (B) whole cell lysates.

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