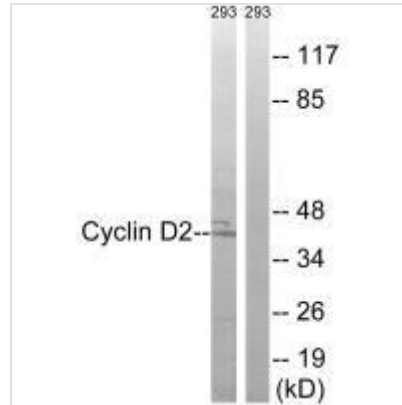




CCND2 (Ab-280) Antibody

Product Code	CSB-PA931919
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P30279
Immunogen	Synthesized non-phosphopeptide derived from Human Cyclin D2 around the phosphorylation site of threonine 280 (A-S-T(p)-P-T).
Raised In	Rabbit
Species Reactivity	Human, Mouse
Specificity	The antibody detects endogenous levels of total Cyclin D2 protein.
Tested Applications	ELISA, WB; WB: 1:500-1:3000
Relevance	Regulatory component of the cyclin D2-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1/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 G1 phase. Hypophosphorylates RB1 in early G1 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 D2/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. By similarity. Xiong Y., Genomics 13:575-584(1992). Palmero I., Oncogene 8:1049-1054(1993). Kalnine N., Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	cyclin D2; G1/S-specific cyclin D2;
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	CCND2
Image	



Western blot analysis of extracts from 293 cells, using Cyclin D2 (Ab-280) antibody.