**Cyclin D1 Polyclonal Antibody**

--- DATASHEET ---

**Host:** Rabbit  
**Target Protein:** Cyclin D1  
**Immunogen:** 70-120/295  
**Range:**  
**Clonality:** Polyclonal  
**Isotype:** IgG  
**Entrez Gene:** 12443  
**Swiss Prot:** P25322  
**Source:** KLH conjugated synthetic peptide derived from mouse Cyclin D1  
**Purification:** Purified by Protein A.  
**Storage:** Aqueous buffered solution containing 100ug/ml BSA, 50% glycerol and 0.09% sodium azide. Store at -20°C for 12 months.  
**Background:** 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 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 D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INS1 on the NEUROD1 and INS promoters in a cell cycle-independent manner (By similarity).

--- PRODUCT SPECIFIC PUBLICATIONS ---

- Li, M., et al. "miR-34c works downstream of p53 leading to dairy goat male germline stem-cell (mGSCs) apoptosis." Cell Proliferation 46.2 (2013): 223-231. Read more>>
Image provided by One World Lab validation program. MCF-7 cells probed with Rabbit Anti-Cyclin D1 Polyclonal Antibody (bs-0623R) at 1:50 for 60 minutes at room temperature followed by Goat Anti-Rabbit IgG (H L) Alexa Fluor 488 Conjugated secondary antibody.

RSC96 cells probed with Cyclin D1 Polyclonal Antibody, Unconjugated (bs-0623R) at 1:100 for 30 minutes followed by incubation with a conjugated secondary (PE Conjugated) (green) for 30 minutes compared to control cells (blue), secondary only (light blue) and isotype control (orange).
Formalin-fixed and paraffin embedded human placenta tissue labeled with Anti-Cyclin D1 Polyclonal Antibody, Unconjugated (bs-0623R) at 1:200, followed by conjugation to the secondary antibody and DAB staining.

A549 cells probed with Anti-Cyclin D1 Polyclonal Antibody (bs-0623R) at 1:300 overnight in 4°C. Followed by conjugation to the secondary antibody (bs-0295G-HRP) at 1:5000 90min in 37°C.
HEK293 cells probed with Rabbit Anti-Cyclin D1 Polyclonal Antibody (bs-0623R) at 1:50 for 60 minutes at room temperature followed by Goat Anti-Rabbit IgG (H L) Alexa Fluor 488 Conjugated secondary antibody.