



Shanghai Genomics, Inc.
No. 647 Songtao Road
Shanghai 201203, China
Phone: 86-21-50802786
FAX: 86-21-50802783
www.shanghaigenomics.com

CCND1 Polyclonal Antibody

CATALOG NUMBER: SG4220-08
QUANTITY: 100µl
SOURCE: Rabbit
DESCRIPTION: Polyclonal antibodies are produced by immunizing rabbits with a peptide corresponding to amino acid residue 285-295 (cTPTDVRDVDI) of human cyclin D1 coupled with KLH.
SPECIFICITY/SENSITIVITY: CCND1 antibody detects endogenous human CCND1 (Fig.1).

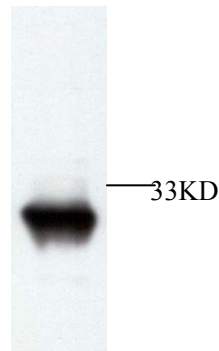


Figure 1: Western Blot analysis of NIH3T3 cell lysate.

APPLICATION: Western Blot, Immunoprecipitation
FORMAT: Rabbit serum containing 0.02% sodium azide.
RECOMMENDED ANTIBODY DILUTION: Western blot: 1:1000.
STORAGE/HANDLING: Antibody is recommended being stored at -20°C. Avoid repeated freeze-thaw cycles.
USAGE: FOR RESEARCH USE ONLY. NOT FOR HUMAN USE.

Background:

The proliferation of eukaryotic cells is controlled at specific points in the cell cycle, particularly at the G1 to S

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and the G2 to M transitions. It is well established that the Cdc2 p34-cyclin B protein kinase plays a critical role in the G2 to M transition while cyclin A associates with Cdk2 p33 and functions in S phase. Considerable effort directed towards the identification of G1 cyclins has led to the isolation of cyclin D, cyclin C and cyclin E. Of these, cyclin D corresponds to a putative human oncogene, designated PRAD1, which maps at the site of the Bcl1 rearrangement in certain lymphomas and leukemias. Two additional human type D cyclins, as well as their mouse homologs, have been identified. Evidence has established that members of the cyclin D family function to regulate phosphorylation of the retinoblastoma gene product, thereby activating E2F transcription factors.