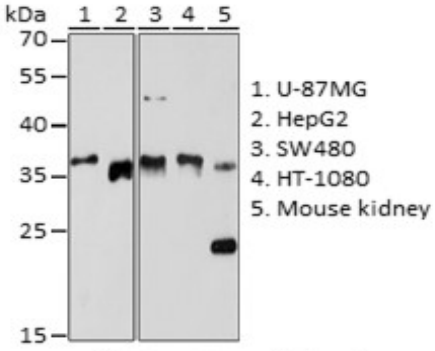
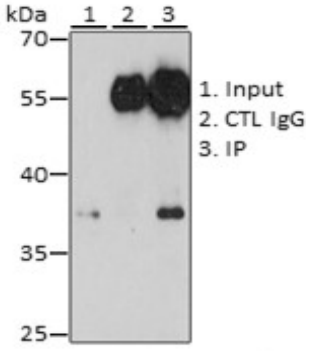
Product Name:	Cyclin D1 Rabbit pAb
Catalog #:	Z3112-20; Z3112-100
Also Known As:	BCL1; D11S287E; PRAD1; U21B31; CCND1; Cyclin D1; cyclin D1
Quantity:	20 µl for Z3112-20; 100 µl for Z3112-100
Concentration:	See labels on tube
Host Species:	Rabbit
Isotype:	IgG
Reactivity:	Human, Mouse, Rat
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 200 to the C-terminus of human Cyclin D1.
Swiss Prot. #:	P24385
Calculated MW:	33kDa
Detected MW:	37kDa
Applications:	WB (1:500 - 1:2,000) IP (1:50 - 1:100) IHC (1:50 - 1:200) IF (1:50 - 1:200) Note: Antibody dilution should be optimized by users.

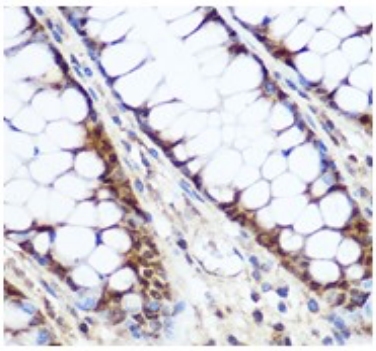
Images:



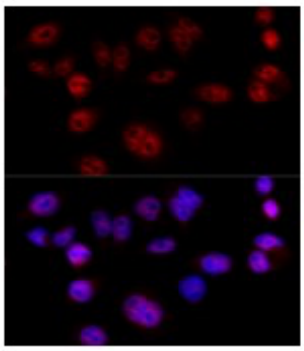
Immunoblotting 25 µg whole cell extracts of various cell lines using Cyclin D1 antibody (Z3112) at 1:1,000 dilution.



Immunoprecipitation of 200 µg HepG2 cell extracts using 3 µg Cyclin D1 antibody (Z3112). Immunoboltting: same antibody at 1:1,000 dilution.



Immunohistochemistry of paraffin-embedded human colon using Cyclin D1 antibody (Z3112) at 1:100 dilution.



Immunofluorescence of Hela cells using Cyclin D1 antibody (Z3112) at 1:100 dilution. Blue: DAPI nuclear staining.

Purification:	Protein A or G affinity purification
Buffer:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage:	Store at -20°C. Centrifuge to maximize product recovery.
Background:	Cyclin D1 is a 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 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.

Reference:

1. Motokura T, et al. (1991) Nature 350, 512-515.
2. Lukas J, et al. (1996) Mol Cell Biol 16, 6917-6925.