novex
by life technologies

ABfinity™ Cyclin D1 Recombinant Rabbit Oligoclonal Antibody

Store at 2°C to 8°C (short-term), or –20°C (long-term)

Catalog Number 710428

Pub. No. MAN0007776 **Rev.** 1.00

Clonality: Oligoclonal	**Quantity**: 100 µg	**Volume**: 200 µL	**Concentration**: 0.5 mg/mL
Host/Class: Rabbit IgG	**Reactivity**: Human	**Predicted Reactivity**: Human Cyclin D1	

Product description

Cyclin D1 is a member of the cyclin family, and functions as the regulatory component of CDK kinase. The cyclin D1-CDK4 complex phosphorylates proteins of the Rb family to regulate the G1/S transition phase of the cell cycle. In addition, cyclin D1 positively regulates protein phosphorylation, mammary gland epithelial cell proliferation, and fat cell differentiation. In humans, the CCND1 gene encoding cyclin D1 is present on chromosome 11.

Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa, A549, MCF7 cells	2–3 µg/mL
Indirect ELISA	Human	Peptide	1.5×10^{-4} to 3 µg/mL
Immunocyto-chemistry	Human	HeLa cells	1–2 µg/mL

Product specifications

Immunogen:	Peptide corresponding to amino acids 167–180 of human Cyclin D1
Alternate Names:	CCND1, BCL1, PRAD1
Apparent MW:	~36 kDa
Gene ID:	595
Protein Accession No.:	P24385
Sequence Identity:	Human
Isotype:	IgG
Lot:	See product label

Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

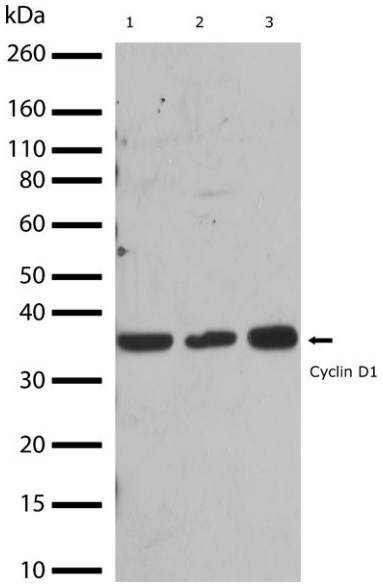

Figure 1 Western blot analysis of ABfinity™ Cyclin D1 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710428).

Western blot analysis was performed on whole cell extracts from HeLa, A549, and MCF7 (lanes 1–3 respectively). Endogenous level of Cyclin D1 was detected at ~36 kDa using ABfinity™ Cyclin D1 Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL, followed by Goat Anti-Rabbit HRP (Cat. no. G21234) as a secondary antibody. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at **www.lifetechnologies.com/support**.

Product documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit **http://www.lifetechnologies.com/support**.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

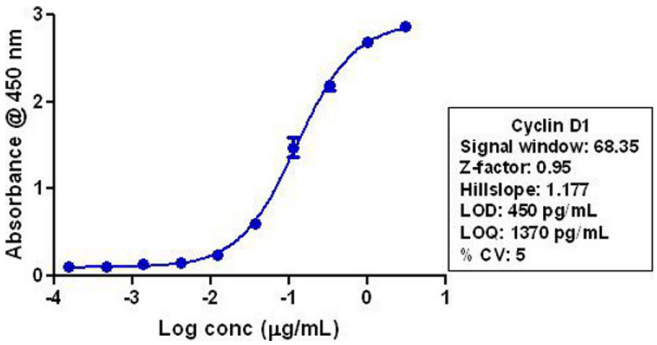

Figure 2 Indirect ELISA of ABfinity™ Cyclin D1 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710428).

Indirect ELISA was performed using various dilutions of ABfinity™ Cyclin D1 Recombinant Rabbit Oligoclonal Antibody, followed by Goat Anti-Rabbit HRP (Cat. no. G21234), to detect Cyclin D1 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

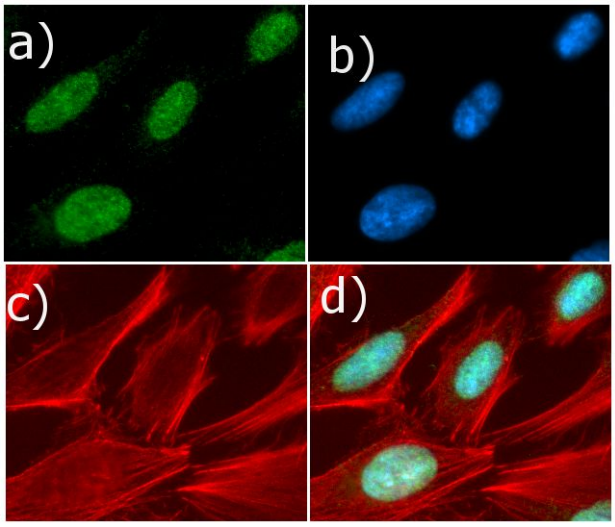

Figure 3 Immunocytochemistry analysis of ABfinity™ Cyclin D1 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710428).

Immunocytochemistry analysis of HeLa cells stained with ABfinity™ Cyclin D1 Recombinant Rabbit Oligoclonal Antibody using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: DAPI stained HeLa nuclei (blue). c: Actin stained with Alexa Fluor® 594 phalloidin (red). d: Composite image of cells showing cytoplasmic and nuclear localization of Cyclin D1.

Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer	REF	Catalog number	LOT	Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		