

Datasheet for ABIN3043485

anti-Cyclin D3 antibody (AA 136-292)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	Cyclin D3 (CCND3)
Binding Specificity:	AA 136-292
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin D3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Cyclin D3/CCND3 Antibody Picoband®
Immunogen:	E.coli-derived human Cyclin D3 recombinant protein (Position: Q136-L292). Human Cyclin D3 shares 94% and 93% amino acid (aa) sequences identity with mouse and rat Cyclin D3, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Cyclin D3/CCND3 Antibody Picoband® (ABIN3043485). Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Cyclin D3 (CCND3)

Alternative Name: CCND3 ([CCND3 Products](#))

Background: Synonyms: G1/S-specific cyclin-D3, CCND3,
Background: CCND3, also called Cyclin D3, is a protein that in humans is encoded by the CCND3 gene. It is mapped to 6p21.1. The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. In addition, overexpression of CCND3 upregulated the translational activity in HeLa cells in a dose-dependent manner.
Sequence Similarities: Belongs to the cyclin family. Cyclin D subfamily.

Molecular Weight: 33 kDa

Gene ID: 896

UniProt: [P30281](#)

Pathways: [Cell Division Cycle](#), [Mitotic G1-G1/S Phases](#), [Glycosaminoglycan Metabolic Process](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Rat
1. Inaba T, Matsushime H, Valentine M, Roussel MF, Sherr CJ, Look AT (August 1992). "Genomic organization, chromosomal localization, and independent expression of human cyclin D genes". Genomics 13 (3): 565-74. 2. Beltran AL, Ordonez JL, Otero AP, Blanca A, Sevillano V, Sanchez-Carbayo M, Kirkali Z, Cheng L, Montironi R, Prieto R, De Alava E. Fluorescence in situ hybridization analysis of CCND3 gene as marker of progression in bladder carcinoma. J Biol Regul Homeost Agents. 2013 Apr-Jun, 27(2):559-67.

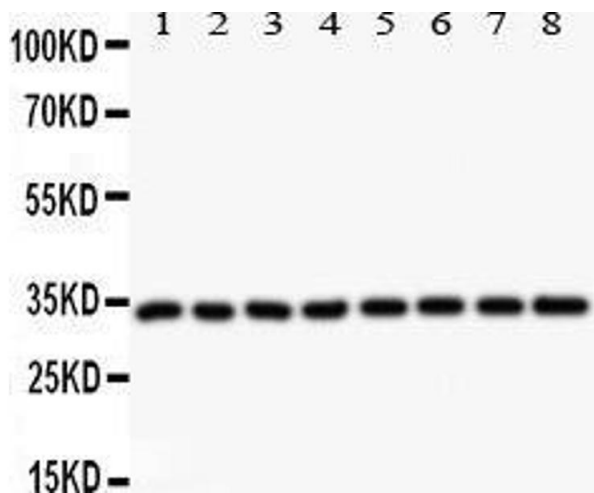
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1.



Western Blotting

Image 2. Anti-Cyclin D3 Picoband antibody, All lanes: Anti Cyclin D3 at 0.5ug/ml WB: Recombinant Human Cyclin D3 Protein 0.5ng Predicted bind size: 25KD Observed bind size: 25KD