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| Basic Information | |
|--------------------|---|
| Product Name | Anti-Cyclin D1/CCND1 Antibody |
| Gene Name | CCND1 |
| Source | Rabbit |
| lsotype | IgG |
| Species Reactivity | human, mouse, rat |
| Tested Application | WB |
| Contents | 500 ug/ml antibody with PBS $ ightarrow$ 0.02% NaN3 , 1 mg BSA and 50% glycerol. |
| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of human Cyclin D1 (158-184aa HDFIEHFLSKMPEAEENKQIIRKHAQT), different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid. |
| concentration | 500 ug/ml |
| Purification | Immunogen affinity purified. |
| Observed MW | 34KD |
| Dilution Ratios | Western blot(WB):1:500-2000 |

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Cyclin D1, also known as CCND1, is a human gene. The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. Cyclin D1 encodes the regulatory subunit of a holoenzyme that phosphorylates and inactivates the retinoblastoma protein and promotes progression through the G1-S phase of the cell cycle. Amplification or overexpression of cyclin D1 plays pivotal roles in the development of a subset of human cancers including parathyroid adenoma, breast cancer, colon cancer, lymphoma, melanoma, and prostate cancer. The cyclin D1 gene is overexpressed in human breast cancers and is required for oncogene-induced tumorigenesis. Brisken et al. (2003) found that prolactin induced IGF2 mRNA and IGF2 induced cyclin D1 protein expression in mouse mammary epithelial cultures. And they also concluded that IGF2 is a mediator of prolactin-induced alveologenesis and that prolactin, IGF2, and cyclin D1 are components of a developmental pathway in mammary gland.

Reference

Anti-Cyclin D1/CCND1 Antibody 被引用在2文献中。

Product datasheet Anti-Cyclin D1/CCND1 Antibody Catalog Number: PB0403



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Selected Validation Data



Figure 1. Western blot analysis of Cyclin D1 using anti-Cyclin D1 antibody (PB0403). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Human Placenta Tissue Lysate, Lane 2: HELA Whole Cell Lysate, Lane 3: 293T Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cyclin D1 antigen affinity purified polyclonal antibody (Catalog # PB0403) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cyclin D1 at approximately 34KD. The expected band size for Cyclin D1 is at 33KD.