CCND1 polyclonal antibody

Catalog # PAB9944 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis is shown using CCND1 polyclonal antibody (Cat # PAB9944) to detect Human CCND1 present in asynchronous HN30 cell lysates.
HN30 cells, are from head and neck cancer cells that over express CCNB1 and CCND1.
Comparison to a molecular weight marker indicates a band of ~34 KDa corresponding to the expected molecular weight for the protein (arrowhead).
The blot was incubated with a 1 : 500 dilution of the antibody at room temperature.
Detection occurred using a 1 : 10,000 of HRP conjugated Goat-anti-Rabbit IgG.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CCND1.
Immunogen	A synthetic peptide corresponding to human CCND1.
Host	Rabbit
Reactivity	Chicken, Chimpanzee, Dog, Frog, Human, Mouse, Orangutan, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In antiserum (0.01% sodium azide)

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Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Cell lysate)

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  HN30 cells, are from head and neck cancer cells that over express CCNB1 and CCND1.
  Comparison to a molecular weight marker indicates a band of ~34 KDa corresponding to the expected molecular weight for the protein (arrowhead).
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Gene Info — CCND1

Entrez GeneID	595
Protein Accession#	P24385;NP_444284
Gene Name	CCND1
Gene Alias	BCL1, D11S287E, PRAD1, U21B31
Gene Description	cyclin D1
Omim ID	151400 168461 193300 254500
Gene Ontology	Hyperlink

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Gene Summary	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. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradatio n 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 f or cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protei n Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and ov erexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis. [provided by RefSeq
Other Designations	B-cell CLL/lymphoma 1|G1/S-specific cyclin D1

Publication Reference

- Gonadotropin-inhibiting hormone promotes apoptosis of bovine ovary granulosa cells.

  Xu Li, Gaoqing Xu, Zhiqiang Li, Hongyu Liu, Xin Ma, Lianyu Yang, Pengju Zhang, Jing Zhao, Jun Wang, Wenfa Lu.

  Life Sciences 2021 Apr; 270:119063.

  Application: WB-Ce, Bovine, Bovine granulosa cells

- Melatonin Promotes the Proliferation of Chicken Sertoli Cells by Activating the ERK/Inhibin Alpha Subunit Signaling Pathway.

  Ke Xu, Jun Wang, Hongyu Liu, Jing Zhao, Wenfa Lu

  Molecules 2020 Mar; 25(5):0.

  Application: WB

- Cyclin D1 expression and cell cycle response in DNA mismatch repair-deficient cells upon methylation and UV-C damage.

  Lutzen A, Bisgaard HC, Rasmussen LJ.

  Experimental Cell Research 2004 Jan; 292(1):123.

  Application: WB, Human, LoVo, SW480 cells

- Cyclins and cyclin-dependent kinases: take your partners.

  Pines J.

  Trends in Biochemical Sciences 1993 Jun; 8(6):195.

  Application: IP, WB-Ce, WB-Tr, Human, Mammalian cells, T cells

- A novel cyclin encoded by a bcl1-linked candidate oncogene.

  Motokura T, Bloom T, Kim HG, Juppner H, Ruderman JV, Kronenberg HM, Arnold A.

  Nature 1991 Apr; 350(6318):512.

  Application: WB-Ti, Clam, Clam embryos

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Pathway

- Acute myeloid leukemia
- Bladder cancer
- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- Focal adhesion
- Glioma
- Jak-STAT signaling pathway
- Melanoma
- Non-small cell lung cancer
- p53 signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer
- Thyroid cancer
- Wnt signaling pathway

Disease

- Adenocarcinoma
- Adenoma
- Ataxia telangiectasia
- Barrett Esophagus

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- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Carcinoma in Situ
- Cell Transformation
- Chromosome Aberrations
- Chronic Disease
- Colitis
- Colon cancer
- Colorectal Neoplasms
- Crohn Disease
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Endometrial Neoplasms
- Esophageal Neoplasms
- Fetal Diseases
- Gastritis
- Gastroesophageal Reflux
- Genetic Predisposition to Disease
- Genomic Instability
- Glioma
- Head and Neck Neoplasms
- Helicobacter Infections
- Hematologic Diseases

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- Hemophilia A
- Hepatoblastoma
- Hodgkin Disease
- Hyperparathyroidism
- Hypopharyngeal Neoplasms
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intestinal Neoplasms
- Kidney Failure
- Kidney Neoplasms
- Laryngeal Diseases
- Laryngeal Neoplasms
- Leiomyoma
- Leukemia
- Leukoplakia
- Liver Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Meningeal Neoplasms
- Meningioma
- Mouth Neoplasms
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis

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- Neoplasm Recurrence
- Neoplasms
- Neuroma
- Obesity
- Occupational Diseases
- Oropharyngeal Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Papillomavirus Infections
- Peptic Ulcer
- Pituitary Neoplasms
- Precancerous Conditions
- Prolactinoma
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Pulmonary Disease
- Rectal Neoplasms
- Recurrence
- Retinoblastoma
- Skin Neoplasms
- Stomach Neoplasms
- Translocation
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Uterine Neoplasms

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- Waldenstrom Macroglobulinemia
- Werner syndrome

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