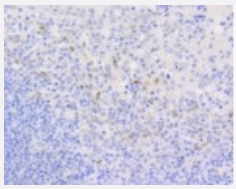
RecomAb™ Sm Size

CCND1 recombinant monoclonal antibody

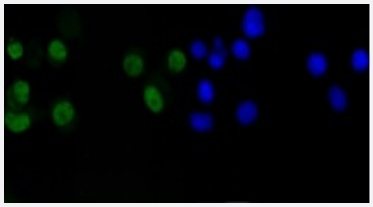
Catalog # RAB09340 Size 50 uL

Applications



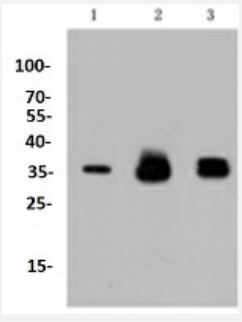
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue using CCND1 recombinant monoclonal antibody (Cat # RAB09340). Counter stained with hematoxylin.



Immunocytochemistry

Immunocytochemical staining of N2A cells using CCND1 recombinant monoclonal antibody (Cat # RAB09340)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.



Western Blot (Cell lysate)

Western blot analysis of Lane1:Hela whole cell lysate Lane2:PC12 whole cell lysate Lane3:SH-SY-5Y whole cell lysate with CCND1 recombinant monoclonal antibody (Cat # RAB09340) at 1:1000 dilution.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against CCND1.

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Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant CCND1.
Theoretical MW (kDa)	36
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of Cyclin D1 and does not cross-react with related proteins.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS , pH7.2 (0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human tonsil tissue using CCND1 recombinant monoclonal antibody (Cat # RAB09340). Counter stained with hematoxylin.

- Immunocytochemistry

  Immunocytochemical staining of N2A cells using CCND1 recombinant monoclonal antibody (Cat # RAB09340)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

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- Western Blot (Cell lysate)

  Western blot analysis of Lane1:Hela whole cell lysate Lane2:PC12 whole cell lysate Lane3:SH-SY-5Y whole cell lysate with CCND1 recombinant monoclonal antibody (Cat # RAB09340) at 1:1000 dilution.

Gene Info — CCND1

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

Pathway

- Acute myeloid leukemia
- Bladder cancer
- Cell cycle
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer

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- 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
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Carcinoma in Situ
- Cell Transformation
- Chromosome Aberrations
- Chronic Disease

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- 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
- Hemophilia A
- Hepatoblastoma
- Hodgkin Disease
- Hyperparathyroidism
- Hypopharyngeal Neoplasms
- Inflammatory Bowel Diseases
- Insulin Resistance

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- 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
- Neoplasm Recurrence
- Neoplasms
- Neuroma
- Obesity
- Occupational Diseases
- Oropharyngeal Neoplasms
- Ovarian cancer

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- 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
- Waldenstrom Macroglobulinemia
- Werner syndrome

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