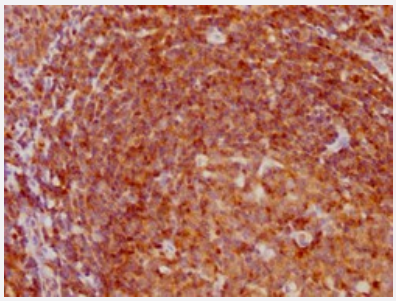
RecomAb™ Sm Size

CDKN1B recombinant monoclonal antibody, clone 1G2

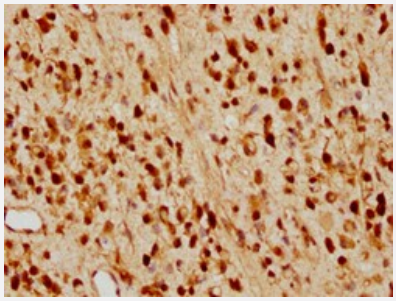
Catalog # RAB08189 Size 50 uL

Applications



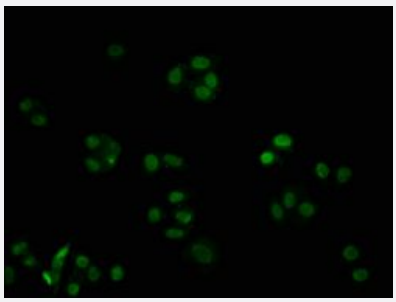
Immunohistochemistry

Immunohistochemical staining of human tonsil tissue with CDKN1B recombinant monoclonal antibody (diluated at 1:97.5).



Immunohistochemistry

Immunohistochemical staining of human glioma cancer with CDKN1B recombinant monoclonal antibody (diluated at 1:97.5).



Immunofluorescence

Immunofluorescent staining of HepG2 cells with CDKN1B recombinant monoclonal antibody (diluated at 1:32.5). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

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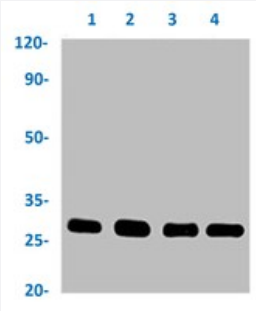

Western Blot

Western blot analysis of
Lane 1: HepG2 whole cell lysate,
Lane 2: Hela whole cell lysate,
Lane 3: MCF-7 whole cell lysate and
Lane 4: NIH/3T3 whole cell lysate with CDKN1B recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CDKN1B.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CDKN1B.
Theoretical MW (kDa)	Calculated MW: 23 kD
Reactivity	Human, Mouse
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °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.

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Applications

- Immunohistochemistry

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- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1: HepG2 whole cell lysate,
  Lane 2: Hela whole cell lysate,
  Lane 3: MCF-7 whole cell lysate and
  Lane 4: NIH/3T3 whole cell lysate with CDKN1B recombinant monoclonal antibody.

Gene Info — CDKN1B

Entrez GeneID	1027
Protein Accession#	P46527
Gene Name	CDKN1B
Gene Alias	CDKN4, KIP1, MEN1B, MEN4, P27KIP1
Gene Description	cyclin-dependent kinase inhibitor 1B (p27, Kip1)
Omim ID	600778 610755
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. [provided by RefSeq

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Other Designations	cyclin-dependent kinase inhibitor 1B

Pathway

- Cell cycle
- Chronic myeloid leukemia
- ErbB signaling pathway
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

Disease

- Acromegaly
- Adenocarcinoma
- Alzheimer disease
- Ataxia telangiectasia
- Atherosclerosis
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Chromosome Aberrations
- Cognition
- Colon cancer
- Colorectal Neoplasms
- Coronary Artery Disease

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- Coronary Restenosis
- Diabetes Mellitus
- Disease Progression
- Edema
- Endometriosis
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Graft Occlusion
- Head and Neck Neoplasms
- Hyperparathyroidism
- Kidney Failure
- Leukemia
- Liver Neoplasms
- Lung Neoplasms
- Lymphatic Metastasis
- Lymphoma
- Mouth Neoplasms
- Multiple endocrine neoplasia
- Multiple Endocrine Neoplasia Type 1
- Myocardial Infarction
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms

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- Pancreatic cancer
- Pancreatic Neoplasms
- Parathyroid Neoplasms
- Precancerous Conditions
- Primary Ovarian Insufficiency
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Stomach Neoplasms
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Werner syndrome

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