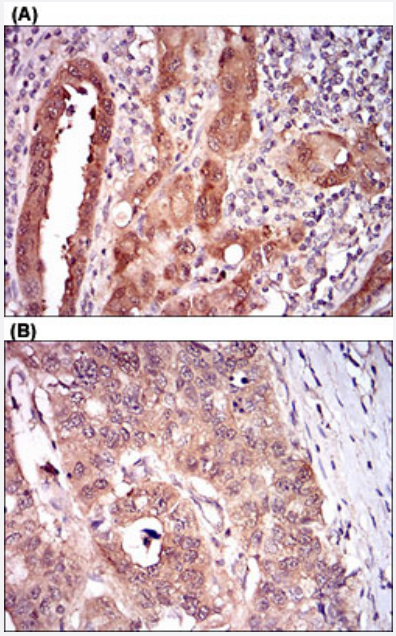
CDKN2A monoclonal antibody, clone 1D7D2A1

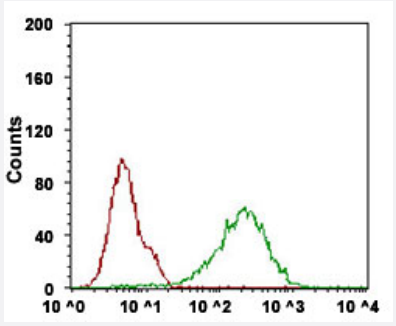
Catalog # MAB12264 Size 100 ug

Applications



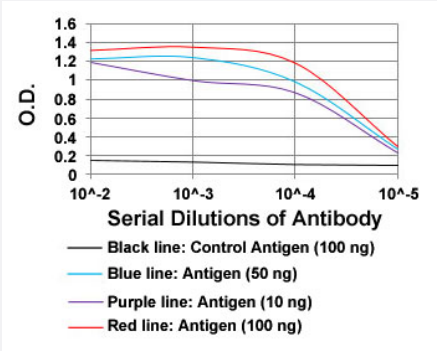
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human endometrial cancer tissues (A) and esophageal cencer tissues (B) with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:200-1:1000 dilution.



Flow Cytometry

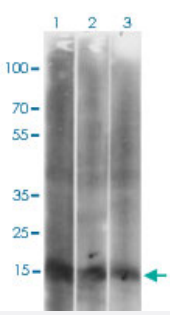
Flow cytometric analysis of Hela cells with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:200-1:400 dilution (Green) and negative control (Red).



Enzyme-linked Immunoabsorbent Assay

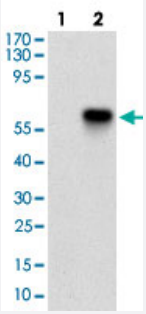
ELISA analysis of CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:10000 dilution.

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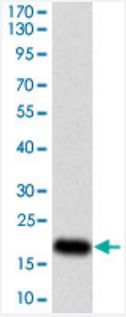
Western Blot (Cell lysate)

Western blot analysis of Lane 1: Hela cell lysate; Lane 2: HepG2 cell lysate; Lane 3: Hek293 cell lysate with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:500-1:2000 dilution.



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: Negative control [HEK293 cell lysate]; Lane 2: Over-expression lysate [CDKN2A (AA: 1-156)-hIgGFc transfected HEK293 cells] with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:500-1:2000 dilution.



Western Blot (Recombinant protein)

Western blot analysis of human CDKN2A (AA: 1-156) recombinant protein (Expected MW is 19 kDa) with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:500-1:2000 dilution.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human CDKN2A.
Immunogen	Recombinant protein corresponding to amino acids 1-156 of human CDKN2A.
Host	Mouse
Theoretical MW (kDa)	16.5
Reactivity	Human
Form	Liquid
Isotype	IgG1

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Recommend Usage	ELISA (1:10000) Flow Cytometry (1:200-1:400) Immunohistochemistry (1:200-1:1000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide)
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

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

  Immunohistochemical staining of human endometrial cancer tissues (A) and esophageal cencer tissues (B) with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:200-1:1000 dilution.

- ### Flow Cytometry

  Flow cytometric analysis of Hela cells with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:200-1:400 dilution (Green) and negative control (Red).

- ### Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:10000 dilution.

- ### Western Blot (Cell lysate)

  Western blot analysis of Lane 1: Hela cell lysate; Lane 2: HepG2 cell lysate; Lane 3: Hek293 cell lysate with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:500-1:2000 dilution.

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  Western blot analysis of Lane 1: Negative control [HEK293 cell lysate]; Lane 2: Over-expression lysate [CDKN2A (AA: 1-156)-hIgGFc transfected HEK293 cells] with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:500-1:2000 dilution.

- ### Western Blot (Recombinant protein)

  Western blot analysis of human CDKN2A (AA: 1-156) recombinant protein (Expected MW is 19 kDa) with CDKN2A monoclonal antibody, clone 1D7D2A1 (Cat# MAB12264) at 1:500-1:2000 dilution.

Gene Info — CDKN2A

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Entrez GeneID	1029
Gene Name	CDKN2A
Gene Alias	ARF, CDK4I, CDKN2, CMM2, INK4, INK4a, MLM, MTS1, TP16, p14, p14ARF, p16, p16INK4, p16INK4a, p19
Gene Description	cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
Omim ID	151623 155601 155755 600160 606719
Gene Ontology	Hyperlink
Gene Summary	This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene; this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, MDM1, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene. [provided by RefSeq
Other Designations	CDK4 inhibitor p16-INK4|OTTHUMP00000021147|OTTHUMP00000021148|cell cycle negative regulator beta|cyclin-dependent kinase inhibitor 2A|cyclin-dependent kinase inhibitor p16|multiple tumor suppressor 1

Pathway

- Bladder cancer
- Cell cycle
- Chronic myeloid leukemia
- Glioma
- Melanoma
- Non-small cell lung cancer
- p53 signaling pathway
- Pancreatic cancer
- Pathways in cancer

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Disease

- Adenocarcinoma
- Alzheimer disease
- Aneuploidy
- Asthma
- Ataxia telangiectasia
- Atherosclerosis
- Barrett Esophagus
- Bile Duct Neoplasms
- Birth Weight
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Chagas Disease
- Cholangiocarcinoma
- Cholangitis
- Chromosomal Instability
- Chromosome Aberrations
- Chronic Disease
- Colon cancer
- Colonic Neoplasms

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- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Cystadenocarcinoma
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Dysplastic Nevus Syndrome
- Eczema
- Esophageal Neoplasms
- Eye Neoplasms
- Fetal Diseases
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Glucose Intolerance
- Glucose Metabolism Disorders
- Head and Neck Neoplasms
- Heart Diseases
- Hemorrhage
- HIV Infections
- Hyperglycemia
- Hyperlipidemias

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- Hyperlipoproteinemia Type II
- Hypersensitivity
- Hypertension
- Insulin Resistance
- Intracranial Aneurysm
- Kidney Failure
- Laryngeal Neoplasms
- Leukemia
- Leukoplakia
- Liver Cirrhosis
- Lung Neoplasms
- Lymphoma
- Malignant melanoma
- Malnutrition
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Microsatellite Instability
- Mouth Neoplasms
- Multiple endocrine neoplasia
- Multiple Endocrine Neoplasia Type 1
- Multiple Myeloma
- Myelodysplastic Syndromes
- Myocardial Infarction
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness

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- Neoplasm Recurrence
- Neoplasms
- Neuroma
- Nevus
- Obesity
- Occupational Diseases
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Pharyngeal Neoplasms
- Precancerous Conditions
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Rectal Neoplasms
- Retinoblastoma
- Rhinitis
- Schizophrenia
- Skin Neoplasms
- Starvation
- Stomach Neoplasms
- Stroke
- Sunburn
- Urinary Bladder Neoplasms

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- Uveal Neoplasms
- Vascular Diseases
- Weight Gain
- Werner syndrome
- Wolfram Syndrome

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