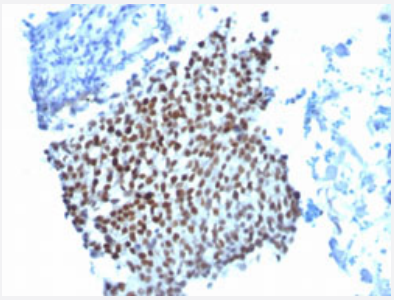
CDKN1A monoclonal antibody, clone WA-1

Catalog # MAB20862 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human bladder carcinoma with CDKN1A monoclonal antibody, clone WA-1 (Cat # MAB20862).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human CDKN1A.
Immunogen	Recombinant protein corresponding to full length human CDKN1A.
Host	Mouse
Theoretical MW (kDa)	21
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells in 0.1 mL) Immunofluorescence (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.

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Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human bladder carcinoma with CDKN1A monoclonal antibody, clone WA-1 (Cat # MAB20862).

- Immunofluorescence

- Flow Cytometry

Gene Info — CDKN1A

Entrez GeneID	1026
Protein Accession#	P38936
Gene Name	CDKN1A
Gene Alias	CAP20, CDKN1, CIP1, MDA-6, P21, SDI1, WAF1, p21CIP1
Gene Description	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
Omim ID	116899
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Two alternatively spliced variants, which encode an identical protein, have been reported. [provided by RefSeq
Other Designations	CDK-interaction protein 1|DNA synthesis inhibitor|OTTHUMP00000016298|cyclin-dependent kinase inhibitor 1A|melanoma differentiation associated protein 6|wild-type p53-activated fragment 1

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Pathway

- Bladder cancer
- Cell cycle
- Chronic myeloid leukemia
- ErbB signaling pathway
- Glioma
- Melanoma
- p53 signaling pathway
- Pathways in cancer
- Prostate cancer

Disease

- Adenocarcinoma
- Ataxia telangiectasia
- Atherosclerosis
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Chromosome Aberrations
- Chronic Disease
- Colorectal Neoplasms
- Diabetes Mellitus
- Disease Progression

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- DNA Damage
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Glaucoma
- Glioma
- Head and Neck Neoplasms
- Helicobacter Infections
- Intestinal Neoplasms
- Kidney Failure
- Laryngeal Neoplasms
- Leiomyoma
- Leukemia
- Low Tension Glaucoma
- Lung Neoplasms
- Lupus Erythematosus
- Lupus Nephritis
- Lymphoma
- Malignant melanoma
- Melanoma
- Meningioma
- Mouth Neoplasms
- Multiple endocrine neoplasia
- Multiple Endocrine Neoplasia Type 1
- Myocardial Infarction

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- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Recurrence
- Neoplasms
- Neuroma
- Occupational Diseases
- Ocular Hypertension
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papillomavirus Infections
- Pharyngeal Neoplasms
- Precancerous Conditions
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Pulmonary Disease
- Radiation Injuries
- Skin Diseases
- Skin Neoplasms
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Uterine Neoplasms

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