

Mouse anti-Human P16INK4a Monoclonal Antibody | anti-ARF antibody

P16INK4a Mouse Monoclonal Antibody [Clone CDKN2A/4499]

CATALOG # AAA215520	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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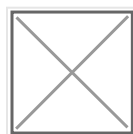
PRODUCT SYNONYMS

P16INK4a; Monoclonal Antibody; P16INK4a Mouse Monoclonal Antibody [Clone CDKN2A/4499]; CDK4 inhibitor p16 INK4; CDK4I; CDKN2A; Cell cycle negative regulator beta; CMM2; Cyclin dependent kinase 4 inhibitor A; Melanoma p16 inhibits CDK4; MLM; MTS1; Multiple tumor suppressor 1; p14; p16; p19; P19ARF; TP16; anti-ARF antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse/IgG2a, kappa
Clone Number	CDKN2A/4499
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-ARF antibody	IHC (Immunohistochemistry)
Immunogen	Purified recombinant prokaryotic full-length human p16INK4a protein
Cellular Localization	Nuclear and cytoplasmic
Positive Control	Cervical squamous cell carcinoma.
Hu-chromosome Location	9p21.3
Unigene	512599
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human cervix stained with P16INK4a Mouse Monoclonal Antibody (CDKN2A/4499).

ADDITIONAL INFORMATION

Related Product Information for anti-ARF antibody	p16INK4a is a tumor suppressor protein. It is a specificinhibitor of cdk4/cdk6, and a tumorsuppressor involved inthe pathogenesis of a variety of malignancies. Recentanalyses of the p16INK4a gene revealed homozygousdeletions, nonsense, missense, or frameshift mutations inseveral human cancers. Although the frequency of p16INK4a abnormalities is higher in tumor derived cell lines than inunselected primary tumors, significant subsets of clinicalcases with aberrant p16INK4a gene have been reportedamong melanomas, gliomas, esophageal, pancreatic, lung,and urinary bladdercarcinomas, and some types of leukemia. Expression of p16INK4a (p16 positive) is highly correlatedwith human papilloma virus (HPV) infection in head and necksquamous cell carcinomas (HNSCC). p16 status is animportant prognostic indicator in HNSCC and the p16positive/HPV16 negative group is likely a distinct subgrouplacking any HPV genotype.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502749
NCBI GeneID	1029
NCBI Accession #	NP_000068.1
NCBI GenBank Nucleotide #	NM_000077.4
UniProt Accession #	P42771; O95440; Q15191; Q5VVJ5; Q96B52; Q9NP05; A5X2G7; D3DRK1; Q8N726
Molecular Weight	16,533 Da
NCBI Official Full Name	cyclin-dependent kinase inhibitor 2A isoform p16INK4a
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2A
NCBI Official Symbol	CDKN2A
NCBI Official Synonym Symbols	ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4I; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A
NCBI Protein Information	cyclin-dependent kinase inhibitor 2A; CDK4 inhibitor p16-INK4; multiple tumor suppressor 1; cell cycle negative regulator beta; cyclin-dependent kinase 4 inhibitor A; cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
UniProt Protein Name	Cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3
UniProt Gene Name	CDKN2A
UniProt Synonym Gene Names	CDKN2; MTS1; CDK4I; MTS-1; p16-INK4; p16INK4A
UniProt Entry Name	CD2A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.