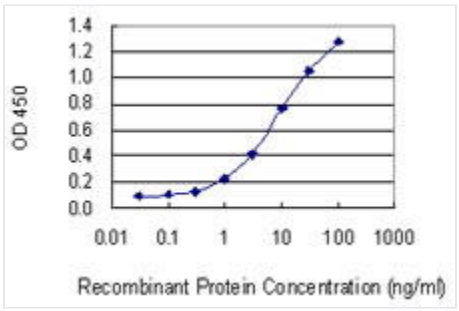
CDKN2A Antibody – Mouse Monoclonal

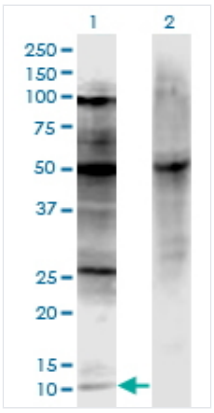
PRODUCT OVERVIEW

Product Name	CDKN2A, Monoclonal Antibody
Full Product Name	CDKN2A (Cyclin-Dependent Kinase Inhibitor 2A (Melanoma, p16, inhibits CDK4), ARF, CDK4I, CDKN2, CMM2, INK4, INK4a, MLM, MTS1, TP16, p14, p14ARF, p16, p16INK4, p16INK4a, p19) (FITC)
Product Gene Name	anti-CDKN2A antibody
Product Synonym Names	Cyclin-Dependent Kinase Inhibitor 2A (Melanoma; p16; inhibits CDK4); ARF; CDK4I; CDKN2; CMM2; INK4; INK4a; MLM; MTS1; TP16; p14; p14ARF; p16; p16INK4; p16INK4a; p19
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3F3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes CDKN2A.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Immunogen	CDKN2A (AAH15960, 1aa-105aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	FITC
Product Categories/Family for anti-CDKN2A antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDKN2A antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CDKN2A antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDKN2A antibody	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 Notes	Small volumes of anti-CDKN2A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

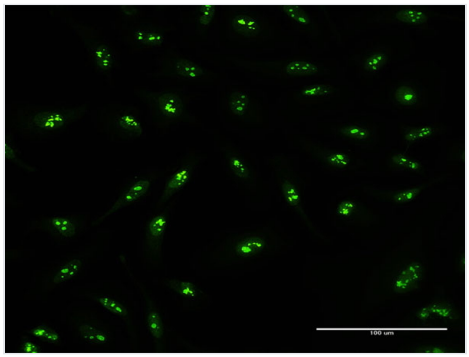
Searchable Terms for CDKN2A purchase	MBS6178566 is an antibody targeting CDKN2A. Also known as CDKN2A (Cyclin-Dependent Kinase Inhibitor 2A (Melanoma, p16, inhibits CDK4), ARF, CDK4I, CDKN2, CMM2, INK4, INK4a, MLM, MTS1, TP16, p14, p14ARF, p16, p16INK4, p16INK4a, p19) (FITC). Host: Mouse.



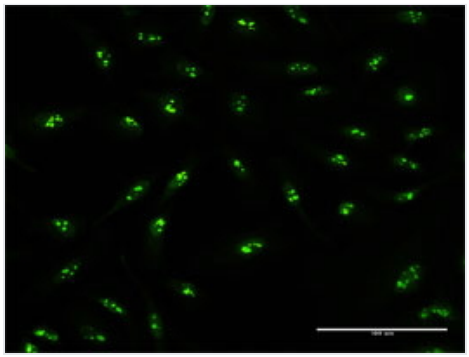
Testing Data of anti-CDKN2A antibody
Detection limit for recombinant GST tagged CDKN2A is 0.1 ng/ml as a capture antibody.



Western Blot (WB) of anti-CDKN2A antibody
Western Blot analysis of CDKN2A expression in transfected 293T cell line by CDKN2A monoclonal antibody (M06), clone 3F3.Lane 1: CDKN2A transfected lysate (Predicted MW: 11.66 KDa).Lane 2: Non-transfected lysate.



Immunofluorescence (IF) of anti-CDKN2A antibody
Immunofluorescence of monoclonal antibody to CDKN2A on HeLa cell. [antibody concentration 5 ug/ml]



Immunofluorescence (IF) of anti-CDKN2A antibody
Immunofluorescence of monoclonal antibody to CDKN2A on HeLa cell. [antibody concentration 5 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN2A. It may not necessarily be applicable to this product.

NCBI GI #	211827859
NCBI GeneID	1029
NCBI Accession #	AAH15960
UniProt Related Accession #	P42771; Q8N726
NCBI Official Full Name	CDKN2A protein, partial
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
Protein Family	Cyclin-dependent kinase inhibitor
NCBI Protein Information	cyclin-dependent kinase inhibitor 2A

NCBI Summary for CDKN2A	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, the E3 ubiquitin-protein ligase MDM2, 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, Sep 2012]
Research Articles on CDKN2A	**1.** In oropharyngeal squamous cell carcinoma (OPSCC), P16-INK4A (p16)-positive nonsmokers showed a significantly better prognosis than p16-positive smokers.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-antibody/cdkn2a/6178566