

## Anti-p16 CDKN2A Monoclonal Antibody

Catalog Number: A00016-3

### About CDKN2A

The gene for CDK2NA generates several transcripts/proteins which differ from each other in their first exons. Three of these transcripts are generated by alternative splicing (isoform 1 a.k.a p16INK4A, isoform 2 and isoform 3 a.k.a p12), two of which are known to function as inhibitors of CDK4 kinase. One other transcript that is generated from this gene contains an alternate reading frame (ARF), with the first exon located 20kb upstream of the remainder of the gene (isoform 4 a.k.a. p14ARF, p19ARF, ARF). In spite of the structural and some functional differences, all the proteins encoded by the CDKN2A gene are involved in cell cycle G1 control.

### Overview

Product Name	Anti-p16 CDKN2A Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-p16 CDKN2A Monoclonal Antibody catalog # A00016-3. Tested in ELISA, IHC-P, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Monoclonal 1E12E1
Formulation	Ascitic fluid containing 0.03% sodium azide, 0.5% BSA, 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	Q8N726

### Technical Details

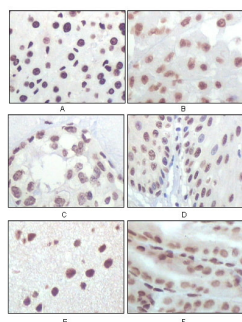
Immunogen	Purified recombinant fragment of p16 expressed in E. Coli.
Predicted Reactive Species	Human
Isotype	IgG1
Form	Liquid
Concentration	85 mg/mL by Refractometry
Purification	Affinity purification
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the

optimal dilution ratio for your samples.  
Some PubMed article(s) citing the expression level of this target are as follows:  
Boster Bio's internal QC testing used:  
ELISA 1:10000  
IHC 1:200-1:1000  
WB 1:500-1:2000

## Anti-p16 CDKN2A Monoclonal Antibody (A00016-3) Images



Western blot analysis using p16 monoclonal antibody against truncated p16 recombinant protein.



Immunohistochemistry analysis of paraffin-embedded rat liver tissue (A) , human brain tumor (B) , breast cancer (C) , esophageal epithelium tissue (D) , mouse brain tissue (E) and stomach tissue (F) , showing nuclear localization with DAB staining using p16 Mon

## 3 Publications Citing This Product

1. PubMed ID: 10.1038/s41419-020-2238-1, P53 and Parkin co-regulate mitophagy in bone marrow mesenchymal stem cells to promote the repair of early steroid-induced osteonecrosis of the femoral head
2. PubMed ID: 30070315, Expression of p16 protein in infantile hemangioma
3. PubMed ID: 22228178, Song Lj, Liu Rj, Zeng Z, Alper SI, Cui Hj, Lu Y, Zheng L, Yan Zw, Fu Gh. J Mol Med (Berl). 2012 Jun;90(6):707-18. Doi: 10.1007/S00109-011-0851-2. Epub 2012 Jan 7. Gastrin Inhibits A Novel, Pathological Colon Cancer Signaling Pathway Involving Egr1...

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