BOSTER BIOLOGICAL TECHNOLOGY
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Anti-p16 CDKN2A Monoclonal Antibody

Catalog Number: A00016-3

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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 WB, IHC, IF, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC, WB
Clonality	Monoclonal 1E12E1
Formulation	Ascitic fluid containing 0.03% sodium azide, 0.5% stabilizing protein, 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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

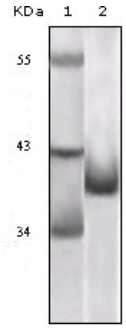
Immunogen	Purified recombinant fragment of p16 expressed in E. Coli.
Isotype	IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Affinity purification
Suggested Dilutions	WB 1:500-1:2000 IHC 1:200-1:1000

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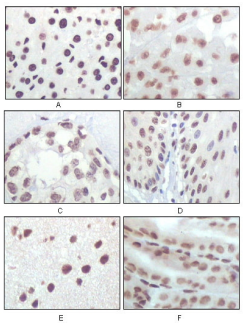
	ELISA 1:10000 IF 1:50-200

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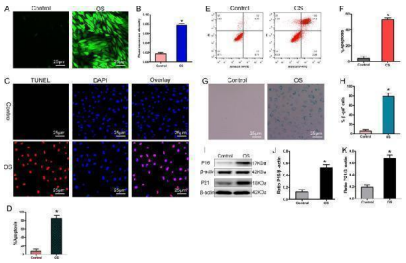
Anti-p16 CDKN2A Monoclonal Antibody (A00016-3) Images



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 tisue (F) , showing nuclear localization with DAB staining using p16 Mon



Accumulation of damaged mitochondria led to stress-induced apoptosis and senescence. a , b 2′,7′-Dichlorofluorescin diacetate (DCFH-DA) detection of reactive oxygen species (ROS; n = 4). c , d TUNEL–DAPI detection of deoxyribonucleic acid (DNA) damage and apoptosis (n = 4). e , f Annexin V–FITC and propidium iodide (PI) detection of apoptosis (n = 4). g , h Detection of beta-gal activity by beta-gal staining (n = 4). i – k Western blot analysis of P16 and P21 expression (n = 3). In (b), (d), (f), (h), and (j – k), data are presented as means ± SD. Statistical significances were calculated by Student's t test. Data were compared with the control group: * P < 0.05. H 2 O 2 was used to simulate OS; L-DMEM was used as control. TUNEL = terminal deoxynucleotidyl transferase deoxyuridine-5′-triphosphate nick end labeling; DAPI = 4′,6-diamidino-2-phenylindole; FITC = fluorescein isothiocyanate; P16 = protein 16; P21 = protein 21; beta-gal = beta-galactosidase. Index in PubMed under a CC BY license. PMID: 31959744

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: 22228178, Song Lj, Liu Rj, Zeng Z, Alper Sl, 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...

3. PubMed ID: 30070315, Expression of p16 protein in infantile hemangioma

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