

## Anti-p21 WAF1 CDKN1A Monoclonal Antibody

Catalog Number: M00145

### About CDKN1A

p21WAF1 is a tumor suppressor gene product critical to maintain proper regulatory control of cell division. p21WAF1 inhibits cyclin/cyclin-dependent kinase (cdk) complexes, causing cell cycle arrest by blocking cell division at the S phase. Various mutations of tumor suppressor genes have been associated with different types of cancers. In these cases, somatic gene therapy with wild-type versions of tumor suppressor genes have been contemplated as anti-cancer therapeutic approaches. p21WAF1 contains p53-binding sites in its promoter and expression of p21WAF1 is induced in WI38 fibroblasts with PMA. Anti-p21WAF1 antibody is useful for researches interested in studying tongue and gastrointestinal cancers, as well as, ubiquitin and cyclin binding proteins.

### Overview

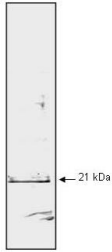
Product Name	Anti-p21 WAF1 CDKN1A Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-p21 WAF1 CDKN1A Monoclonal Antibody (Catalog # M00145). Tested in ELISA, IF, WB applications. This antibody reacts with Human.
Application	ELISA, IF, WB
Clonality	Monoclonal Clone: WA-1 IgG1 kappa
Formulation	0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Mouse
Uniprot ID	P38936

### Technical Details

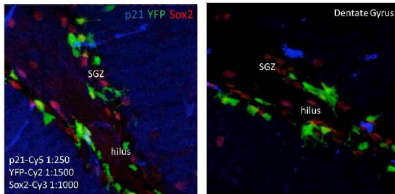
Immunogen	This protein A purified monoclonal antibody was produced by repeated immunizations with recombinant human p21 fusion protein.
Predicted Reactive Species	Bovine, Mammalian
Isotype	IgG1 kappa
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm

Purification	This protein A purified mouse monoclonal antibody reacts with human and mammalian p21. The intracellular protein p21 is a 21 kD protein and also known as wild-type p53-activated fragment 1 (WAF1). It is an inhibitor of cyclin-dependent kinases (Cdk) and proliferating-cell nuclear antigen (PCNA). The antibody is highly specific and shows no cross-reactivity with other closely related mitotic inhibitors.
Suggested Dilutions	ELISA: 1:5,000 - 1:20,000 IHC: User optimized IF Microscopy: 1:250 IP: 1:100 WB: 1:2,000 - 1:10,000

## Anti-p21 WAF1 CDKN1A Monoclonal Antibody (M00145) Images



Western blot analysis of p21WAF1 expression in HeLa whole cell lysates (lane 1). p21WAF1 at 21KD was detected using mouse anti-p21WAF1 protein A purified monoclonal antibody (Catalog # M00145) at 1:1000. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1001).



p21 was detected in human brain tissues using mouse anti-p21 protein A purified monoclonal antibody (Catalog # M00145) at 1:250. Staining: p21 as precipitated blue with Cy5, YFP as precipitated green with Cy2, and Sox2 as precipitated red with Cy3. The immunohistochemical section was developed using SABC method (Catalog # SA1021).

## 4 Publications Citing This Product

1. PubMed ID: 32323839, Wang Q,Han B,Huang W,Qi C,Liu F.Identification of KIF15 as a potential therapeutic target and prognostic factor for glioma.Oncol Rep. 2020 Apr;43(4):1035-1044.doi:10.3892/or.2020.7510.Epub 2020 Feb 21.PMID: 32323839;PMCID:PMC7057805.
2. PubMed ID: 21998670, Action Mechanism of Inhibin  $\beta$ -Subunit on the Development of Sertoli Cells and First Wave of Spermatogenesis in Mice
3. PubMed ID: 23563985, Wu K, Liu Y, Lv Y, Cui L, Li W, Chen J, Liang Nc, Li L. Oncol Rep. 2013 Jun;29(6):2101-8. Doi: 10.3892/Or.2013.2375. Epub 2013 Apr 3. Ent-11??-Hydroxy-15-Oxo-Kaur-16-En-19-Oic-Acid Induces Apoptosis And Cell Cycle Arrest In Cne-2Z Nasopharyngeal C...

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