

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

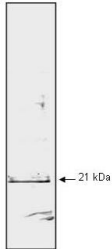
Product Name	Anti-p21 WAF1 CDKN1A Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-p21 WAF1 CDKN1A Monoclonal Antibody (Catalog # M00145). Tested in ELISA, IF, WB applications. This antibody reacts with Human.
Application	ELISA, IF, WB
Clonality	Monoclonal Clone: WA-1 IgG1 kappa
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

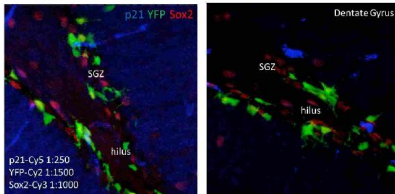
Immunogen	This protein A purified monoclonal antibody was produced by repeated immunizations with recombinant human p21 fusion protein.
Predicted Reactive Species	Bovine, Mammalian
Isotype	IgG1 kappa
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm

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 (Cdks) and proliferating-cell nuclear antigen (PCNA). The antibody is highly specific and shows no cross-reactivity with other closely related mitotic inhibitors.
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: 1:5,000 - 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 γ -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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