

## Anti-p21 CDKN1A Rabbit Monoclonal Antibody

Catalog Number: M00145-3

### About CDKN1A

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

### Overview

Product Name	Anti-p21 CDKN1A Rabbit Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-p21 CDKN1A Rabbit Monoclonal Antibody catalog # M00145-3. Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal ACG-3
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
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	Rabbit
Uniprot ID	P38936

### Technical Details

Immunogen	A synthesized peptide derived from human p21
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
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:

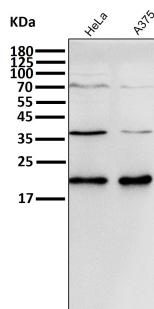
WB 1:500-1:2000

IHC 1:50-1:200

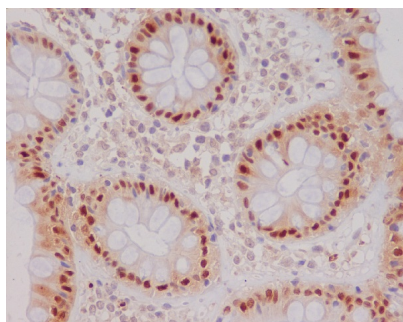
ICC/IF 1:50-1:200

IP 1:50

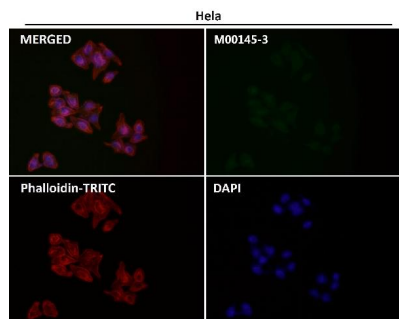
## Anti-p21 CDKN1A Rabbit Monoclonal Antibody (M00145-3) Images



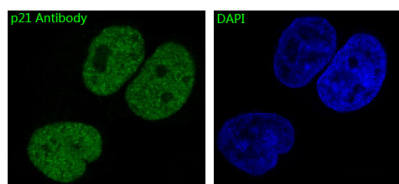
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



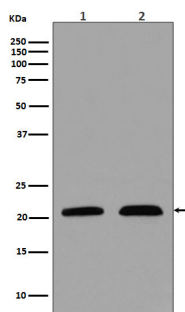
Immunohistochemical analysis of paraffin-embedded human colon, using p21 Antibody.



Immunofluorescent analysis using the Antibody at 1:500 dilution.



Immunofluorescent analysis of MCF7 cells, using p21 Antibody .



Western blot analysis of p21 in (1) MCF-7 cell lysate; (2) LnCaP cell lysate.

1. PubMed ID: 33902600, Chen Q, Fu L, Hu J, Guo G, Xie A. Silencing of PSMC2 inhibits development and metastasis of prostate cancer through regulating proliferation, apoptosis and migration. Cancer Cell Int. 2021 Apr 26;21(1):235. doi:10.1186/s12935-021-01934-8. PMID:33902600; PMCID:PMC8077794.
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 N, Li L. Oncol Rep. 2013 Jun;29(6):2101-8. Doi: 10.3892/or.2013.2375. Epub 2013 Apr 3. Ent-11 $\beta$ -Hydroxy-15-Oxo-Kaur-16-En-19-Oic-Acid Induces Apoptosis And Cell Cycle Arrest In Cne-2Z Nasopharyngeal C...

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