

ARG67225 anti-p21 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes p21
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	p21
Conjugation	Un-conjugated
Alternate Names	CDKN1A; Cyclin Dependent Kinase Inhibitor 1A; CAP20; CIP1; WAF1; SDI1; P21; P21CIP1; CDKN1; Cyclin-Dependent Kinase Inhibitor 1A (P21, Cip1); Cyclin-Dependent Kinase Inhibitor 1; Cdk-Interacting Protein 1; P21Cip1/Waf1; MDA-6; Melanoma Differentiation Associated Protein 6; Melanoma Differentiation-Associated Protein 6; Wild-Type P53-Activated Fragment 1; CDK-Interaction Protein 1; CDK-Interacting Protein 1; DNA Synthesis Inhibitor; MDA6; PIC1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:500
	IHC-P	1:200 - 1:500
	WB	1:500 - 1:1000

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purified
Buffer	100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300 and 20% Glycerol.
Preservative	0.025% ProClin 300
Stabilizer	20% Glycerol
Concentration	0.3 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CDKN1A
Gene Full Name	Cyclin Dependent Kinase Inhibitor 1A
Background	<p>This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-cyclin-dependent kinase2 or -cyclin-dependent kinase4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen, a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of cyclin-dependent kinase2, and may be instrumental in the execution of apoptosis following caspase activation. Mice that lack this gene have the ability to regenerate damaged or missing tissue. Multiple alternatively spliced variants have been found for this gene. [provided by RefSeq, Sep 2015]</p>
Function	<p>Negatively regulates the CDK4- and CDK6-driven phosphorylation of RB1 in keratinocytes, thereby resulting in the release of E2F1 and subsequent transcription of E2F1-driven G1/S phase promoting genes. [Uniprot]</p>
Calculated Mw	18 kDa
PTM	Acetylation, Phosphoprotein, Ubl conjugation. [Uniprot]
Cellular Localization	Cytoplasm, Nucleus. [Uniprot]