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# anti-p21 antibody

4 Images

2

**Publications** 



Go to Product page

# Overview

Quantity:	0.1 mg
Target:	p21 (CDKN1A)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This p21 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

# **Product Details**

Immunogen:	Human p21 protein
Clone:	WA-1
Isotype:	lgG1
Specificity:	The antibody WA-1 reacts with p21 protein (Waf1, Cip1, SDI 1, intracellular antigen), a 21 kDa tumour suppressor, which inhibits the activity of cyclin-dependent family kinases and of proliferating cell nuclear antigen.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

# **Target Details**

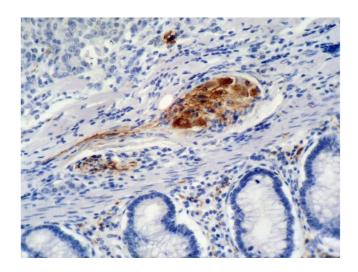
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Target:	p21 (CDKN1A)
Alternative Name:	p21Waf1 (CDKN1A Products)
Background:	Cyclin dependent kinase inhibitor 1A,The tumour suppressor p21Waf1 (wild-type p53-activated
	fragment 1, also known as Cip1, Cdk interacting protein, or SDI 1) is a cyclin-dependent kinase
	(Cdk) inhibitor, which is expressed by involvement of p53, Egr-1, AP2, STATs or other
	transcription factors upon various stimuli resulting in cell cycle arrest. Through its N-terminal
	domain p21Waf1 inhibits Cdk activity, whereas through the C-terminal domain it inhibits the
	activity of PCNA (proliferating cell nuclear antigen) to activate DNA replication. Cytosolic
	location of p21 counteracts its inhibitory activities.,CDKN1A, CIP1, CAP20
Gene ID:	1026
UniProt:	P38936
Pathways:	p53 Signaling, PI3K-Akt Signaling, Cell Division Cycle, AMPK Signaling, Fc-epsilon Receptor
	Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Mitotic G1-G1/S
	Phases, DNA Replication, Hepatitis C, Synthesis of DNA, Autophagy
Application Details	
Application Notes:	Immunohistochemistry (paraffin sections): Positive tissue: colon carcinoma.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Product cited in:

Palumbo, Gogliettino, Cocca, Iannitti, Sandomenico, Ruvo, Balestrieri, Rossi, Palmieri: "APEH Inhibition Affects Osteosarcoma Cell Viability via Downregulation of the Proteasome." in: **International journal of molecular sciences**, Vol. 17, Issue 10, (2017) (PubMed).

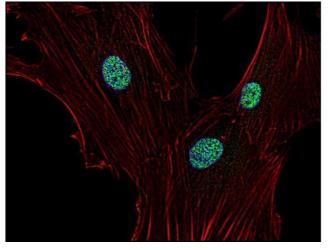
Kolár, Murray, Scott, Harrison, Vojt?sek, Dusek: "Relation of Bcl-2 expression to androgen receptor, p21WAF1/CIP1, and cyclin D1 status in prostate cancer." in: **Molecular pathology: MP**, Vol. 53, Issue 1, pp. 15-8, (2000) (PubMed).

# **Images**



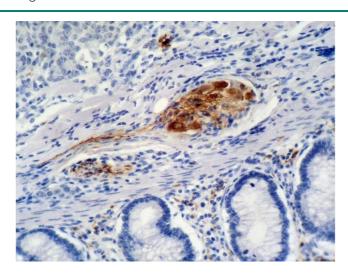
# Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry staining of colon carcinoma (paraffin-embedded sections) with anti-p21 (WA-1).



### **Immunofluorescence**

**Image 2.** Immunofluorescence staining of p21 in human primary fibroblasts using anti-p21 (; green). Actin cytoskeleton decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



# **Immunohistochemistry**

**Image 3.** Immunohistochemistry staining of colon carcinoma (paraffin-embedded sections) with anti-p21 (WA-1).

Please check the product details page for more images. Overall 4 images are available for ABIN94444.