

**Rabbit Anti-p21/WAF1 [CIP1/4377R]: RM0270, RM0270RTU7**

**Intended Use:** For Research Use Only

**Description:** p21 / WAF1, also known as cyclin-dependent kinase inhibitor 1 or CDK-interacting protein 1, is a protein that in humans is encoded by the CDKN1A gene located on chromosome 6 (6p21.2). The p21 protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. p21 is expressed in all adult human tissues. In tumors, the expression of p21 has been studied by immunohistochemical methods in a wide range of human tumors, such as gastric carcinoma, non-small cell lung carcinoma, and thyroid carcinoma. The expression of p21 is associated with favorable prognosis in various tumors.

**Specifications**

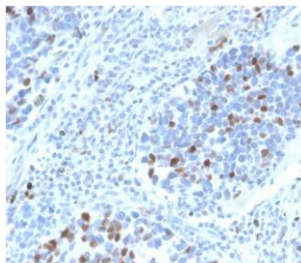
Clone: CIP1/4377R  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Immunogen: Synthetic peptide corresponding to human p21 residues within aa1-100  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
p21/WAF1 Concentrated	RM0270	1 ml
p21/WAF1 Prediluted	RM0270RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Colon cancer  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human lung carcinoma stained with p21 using DAB

**References:**

1. PDGFR-modulated miR-23b cluster and miR-125a-5p suppress lung tumorigenesis by targeting multiple components of KRAS and NF-kB pathways. Naidu S, et al. Sci Rep 7:15441, 2017.
2. CDK1 interacts with iASPP to regulate colorectal cancer cell proliferation through p53 pathway. Gan W, et al. Oncotarget 8:71618-71629, 2017.
3. The p21 Cdk-interacting protein Cip1 is a potent inhibitor of G1 cyclin-dependent kinases. Harper, J.W., et al. Cell 75: 805-816, 1993.