

**Rabbit Anti-p27/Kip1 [EP104]: RM0153**

**Intended Use:** For Research Use Only

**Description:** p27Kip1 is a cyclin-dependent kinase inhibitor involved in G1 arrest. p27Kip1 binds to and inhibits cyclinE-Cdk2 complex, cyclinA-CDK2 and cyclinD1-CDK4 (1). p27Kip1 is regulated by phosphorylation on serine 10 (S10) and threonine 187 (T187). Phosphorylation by CDK2 on T187 results in ubiquitination and degradation of p27Kip1, while phosphorylation by hKIS on S10 signals nuclear export to the cytoplasm. The expression level of p27Kip1 is high in normal cells. Downregulation of p27Kip1 is found in many types of cancers, and decreased expression of p27Kip1 appears to be a poor prognostic factor in several tumor models, including carcinomas of the lung, breast, colorectal, and prostate.

**Specifications**

Clone: EP104  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Localization: Nucleus  
Formulation: Purified antibody in 0.2% BSA and 15mM sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles  
Applications: IHC  
Package:

Description	Catalog No.	Size
p27/Kip1 Concentrated	RM0153	1 ml

**IHC Procedure\***

Positive Control Tissue: Colon cancer  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 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.