

**p27**  
**Mouse Monoclonal antibody(Mab)**  
**Catalog # AD80184**

## Specification

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### p27 - Product info

Application	IHC-P, IHC
Primary Accession	<a href="#">P46527</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	22073

### p27 - Additional info

Gene ID	1027
Gene Name	CDKN1B
<b>Other Names</b>	
Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1, CDKN1B {ECO:0000303 PubMed:20824794}	

#### Dilution

IHC-P~~Ready-to-use  
IHC~~Ready-to-use

#### Storage

Maintain refrigerated at 2-8°C

#### Precautions

**p27 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**

### p27 - Protein Information

**Name** CDKN1B {ECO:0000303|PubMed:20824794}

**Synonyms**  
**Function**

**KIP1**  
**Important regulator of cell cycle progression. Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA (PubMed:28666995). Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A- CDK2 complexes. Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type**

Cellular Location

**D-CDK4 complexes depending on its phosphorylation state and/or stoichiometry.**

**Nucleus. Cytoplasm. Endosome. Note=Nuclear and cytoplasmic in quiescent cells. AKT- or RSK- mediated phosphorylation on Thr-198, binds 14-3-3, translocates to the cytoplasm and promotes cell cycle progression. Mitogen-activated UHMK1 phosphorylation on Ser-10 also results in translocation to the cytoplasm and cell cycle progression Phosphorylation on Ser-10 facilitates nuclear export. Translocates to the nucleus on phosphorylation of Tyr-88 and Tyr-89 Colocalizes at the endosome with SNX6; this leads to lysosomal degradation (By similarity).**

Tissue Location

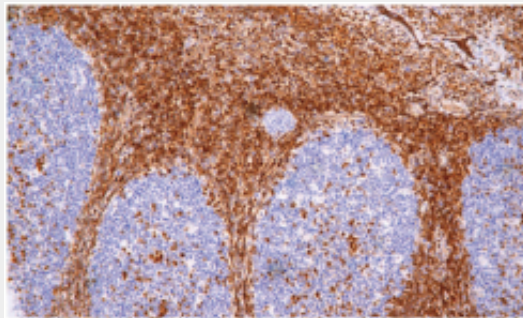
**Expressed in all tissues tested. Highest levels in skeletal muscle, lowest in liver and kidney**

### **p27 - Protocols**

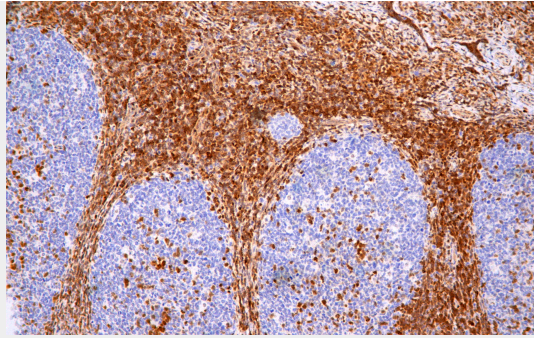
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **p27 - Images**



Tonsil



Immunohistochemical analysis of paraffin-embedded colorectal carcinoma; tissue using AD80184 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary antibody.