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p27
Mouse Monoclonal antibody(Mab)
Catalog # AD80184

Specification

p27 - Product info

Application	**IHC-P**
Primary Accession	P46527
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**22073**

p27 - Additional info

Gene ID	**1027**
Gene Name	**CDKN1B**

Other Names
Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1, CDKN1B {ECO:0000303|PubMed:20824794}

Dilution
IHC-P~~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	**KIP1**
Function	**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 D-CDK4 complexes depending on its**

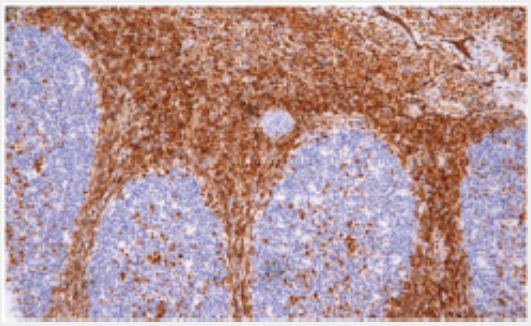
	phosphorylation state and/or stoichometry.
Cellular Location	**Nucleus. Cytoplasm. Endosome. Note=Nuclear and cytoplasmic in quiescent cells. AKT- or RSK- mediated phosphorylation on Thr-198, binds 14-3-3, translocates to the cytoplasm and promotes cell cycle progression. Mitogen-activated UHMK1 phosphorylation 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 Cytomety
- Cell Culture

p27 - Images



Tonsil

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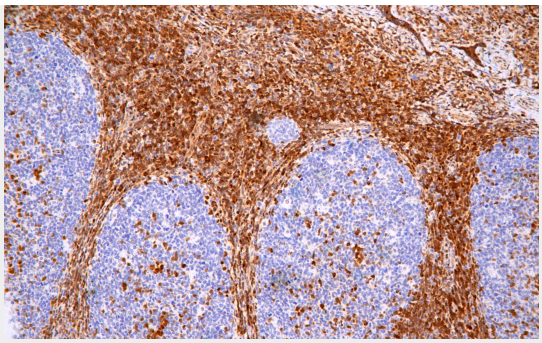

Immunohistochemical analysis of paraffin-embedded colorectal carcinoma; tissue using AD80184 performed on the Abcarta® FAIP-30 Fully automated IHC platform.Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated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