

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

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 D-CDK4 complexes depending on its

Cellular Location

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

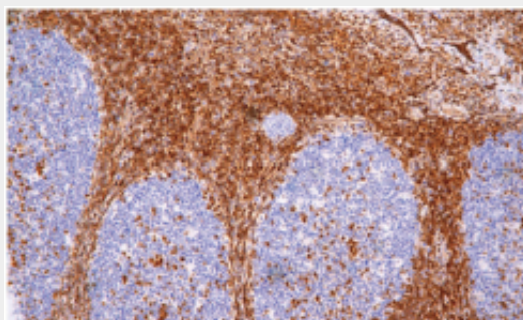
Expressed in all tissues tested. Highest levels in skeletal muscle, lowest in liver and kidney

p27 - Protocols

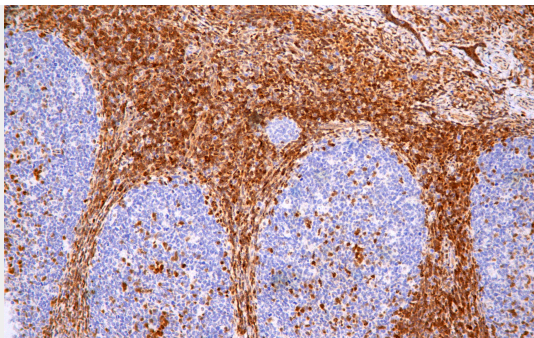
Provided below are standard protocols that you may find useful for product applications.

- [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.