

p27 KIP1 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52854**Specification**

p27 KIP1 Antibody - Product Information

Application	WB
Primary Accession	P46527
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	27 KDa

p27 KIP1 Antibody - Additional Information**Gene ID** 1027**Other Names**

AA408329;AI843786;Cdk1b;CDKN 1B;CDKN 4;CDKN1B;CDKN1B;CDKN4;CDKN4;CDN1B_HUMAN;Cyclin Dependent Kinase Inhibitor 1B;Cyclin Dependent Kinase Inhibitor 1B;Cyclin dependent kinase inhibitor p27;Cyclin dependent kinase inhibitor p27;Cyclin-dependent kinase inhibitor 1B (p27, Kip1);Cyclin-dependent kinase inhibitor 1B;Cyclin-dependent kinase inhibitor p27;Cyclin-dependent kinase inhibitor p27 Kip1;KIP 1;KIP1;MEN1B;MEN4;OTTHUMP00000195098;OTTHUMP00000195099;p27;p27 Kip1;P27-like cyclin-dependent kinase inhibitor;P27KIP1

Dilution

WB~~1:1000

Format

Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

p27 KIP1 Antibody - Protein Information**Name** CDKN1B {ECO:0000303|PubMed:20824794}**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 stoichiometry.

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

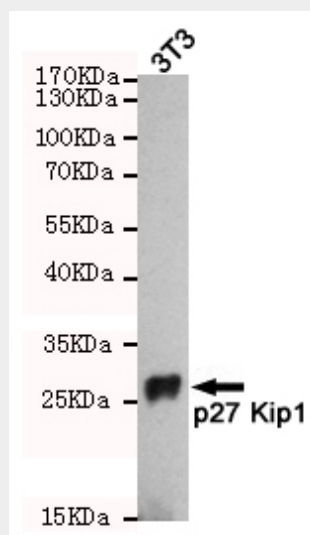
Expressed in kidney (at protein level) (PubMed:15509543). Expressed in all tissues tested (PubMed:8033212) Highest levels in skeletal muscle, lowest in liver and kidney (PubMed:8033212).

p27 KIP1 Antibody - 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 KIP1 Antibody - Images



Western blot detection of p27 Kip1 in 3T3 cell lysates using p27 Kip1 mouse mAb (1:1000 diluted). Predicted band size: 27KDa. Observed band size: 27KDa.

p27 KIP1 Antibody - Background

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p27 KIP1 Antibody - References

Polyak K., et al. Cell 78:59-66(1994).
Pietenpol J.A., et al. Cancer Res. 55:1206-1210(1995).
Kalnine N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DBJ databases.
Montagnoli A., et al. Genes Dev. 13:1181-1189(1999).
Ishida N., et al. J. Biol. Chem. 275:25146-25154(2000).