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CDKN1B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13302b

Specification

CDKN1B Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P46527
Other Accession	NP_004055.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**22073**
Antigen Region	**147-176**

CDKN1B Antibody (C-term) - Additional Information

Gene ID 1027

Other Names
Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1, CDKN1B, KIP1

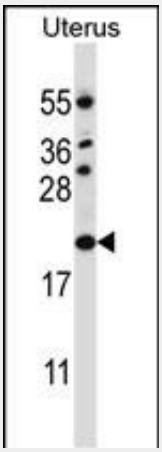
Target/Specificity
This CDKN1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 147-176 amino acids from the C-terminal region of human CDKN1B.

Dilution
WB~~1:1000
IHC-P~~1:10~50

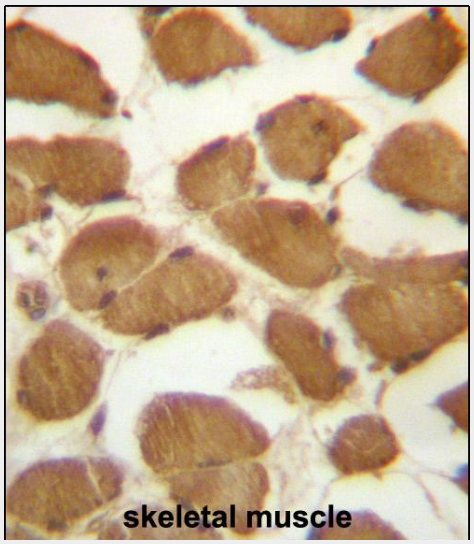
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



CDKN1B Antibody (C-term) (Cat. #AP13302b) western blot analysis in human normal Uterus tissue lysates (35ug/lane).This demonstrates the CDKN1B antibody detected the CDKN1B protein (arrow).



CDKN1B Antibody (C-term) (Cat. #AP13302b)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CDKN1B Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CDKN1B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CDKN1B Antibody (C-term) - Protein Information

Name CDKN1B

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

CDKN1B Antibody (C-term) - Protocols

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

CDKN1B Antibody (C-term) - Background

This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state. [provided by RefSeq].

CDKN1B Antibody (C-term) - References

Kajihara, R., et al. Biochem. Biophys. Res. Commun. 401(3):350-355(2010) Kedde, M., et al. Nat. Cell Biol. 12(10):1014-1020(2010) Canbay, E., et al. Anticancer Res. 30(7):3093-3098(2010) Do Nascimento Borges, B., et al. In Vivo 24(4):579-582(2010) Qin, J., et al. Hepatogastroenterology 57 (99-100), 547-553 (2010) :

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture