

**CDKN1B antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16183****Specification**

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**CDKN1B antibody - C-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">P46527</a>
Other Accession	<a href="#">NM_004064</a> , <a href="#">NP_004055</a>
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22kDa KDa

**CDKN1B antibody - C-terminal region - Additional Information****Gene ID** 1027**Alias Symbol** CDKN4, KIP1, MEN1B, MEN4, P27KIP1**Other Names**

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

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-CDKN1B antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

CDKN1B antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**CDKN1B antibody - C-terminal region - 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:&lt;a href="http://www.uniprot.org/citations/28666995" target="\_blank"&gt;28666995&lt;/a&gt;). 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

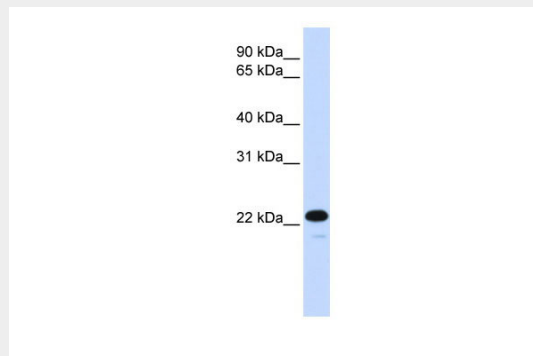
Expressed in kidney (at protein level) (PubMed:15509543). Expressed in all tissues tested (PubMed:8033212) Highest levels in skeletal muscle, lowest in liver and kidney (PubMed:8033212).

### CDKN1B antibody - C-terminal region - 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](#)

### CDKN1B antibody - C-terminal region - Images



WB Suggested Anti-CDKN1B Antibody Titration: 0.2-1 µg/ml  
ELISA Titer: 1:62500  
Positive Control: 721\_B cell lysate

### CDKN1B antibody - C-terminal region - Background

Important regulator of cell cycle progression. 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.

### CDKN1B antibody - C-terminal region - References

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Montagnoli A.,et al.Genes Dev. 13:1181-1189(1999).  
Ishida N.,et al.J. Biol. Chem. 275:25146-25154(2000).