

CDKN1B antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # AI16183

Product Information

Application WB Primary Accession P46527

Other Accession NM 004064, NP 004055

Reactivity Human
Predicted Human
Host Rabbit
Clonality Polyclonal
Calculated MW 22073

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.

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

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 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).

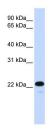
Background

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 stoichometry.

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

Images



WB Suggested Anti-CDKN1B Antibody Titration: 0.2-1

µg/ml

ELISA Titer: 1:62500

Positive Control: 721_B cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.