10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CDKN3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7528b

Product Information

Application	IHC-P, WB, E
Primary Accession	Q16667
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB3225
Calculated MW	23805
Antigen Region	183-212

Additional Information

Gene ID	1033
Other Names	Cyclin-dependent kinase inhibitor 3, CDK2-associated dual-specificity phosphatase, Cyclin-dependent kinase interactor 1, Cyclin-dependent kinase-interacting protein 2, Kinase-associated phosphatase, CDKN3, CDI1, CIP2, KAP
Target/Specificity	This CDKN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 183-212 amino acids from the C-terminal region of human CDKN3.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	CDKN3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDKN3 (HGNC:1791)
Synonyms	CDI1, CIP2, KAP

Function	May play a role in cell cycle regulation. Dual specificity CC phosphatase active toward substrates containing either phosphotyrosine or phosphoserine residues (PubMed:8127873, PubMed:8242750). Dephosphorylates CDK2 at 'Thr-160' in a cyclin-dependent manner (PubMed:7569954).
Cellular Location	Cytoplasm, perinuclear region

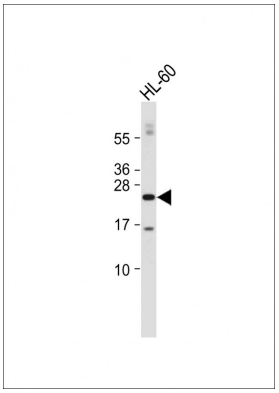
Background

CDKN3 belongs to the dual specificity protein phosphatase family. It was identified as a cyclin-dependent kinase inhibitor, and has been shown to interact with, and dephosphorylate CDK2 kinase, thus prevent the activation of CDK2 kinase. The gene was reported to be deleted, mutated, or overexpressed in several kinds of cancers.

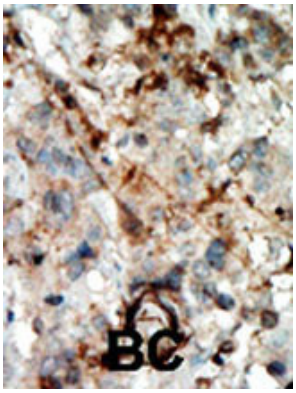
References

Yeh, C.T., et al., Biochem. Biophys. Res. Commun. 305(2):311-314 (2003).
Yeh, C.T., et al., Cancer Res. 60(17):4697-4700 (2000).
Lee, S.W., et al., Mol. Cell. Biol. 20(5):1723-1732 (2000).
Poon, R.Y., et al., Science 270(5233):90-93 (1995).
Hannon, G.J., et al., Proc. Natl. Acad. Sci. U.S.A. 91(5):1731-1735 (1994).

Images



Anti-hCDKN3-A198 at 1:2000 dilution + HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 24 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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