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Phospho-CCNB3(T280) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3841a

Product Information

Application	DB, E
Primary Accession	Q8WWL7
Other Accession	NP_149020.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42155
Calculated MW	157916

Additional Information

Gene ID	85417
Other Names	G2/mitotic-specific cyclin-B3, CCNB3, CYCB3
Target/Specificity	This CCNB3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T280 of human CCNB3.
Dilution	DB~~1:500 E~~Use at an assay dependent concentration.
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	Phospho-CCNB3(T280) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCNB3
Synonyms	CYCB3
Function	Cyclins are positive regulatory subunits of the cyclin- dependent kinases (CDKs), and thereby play an essential role in the control of the cell cycle, notably via their destruction during cell division. Its tissue specificity suggest

that it may be required during early meiotic prophase I.

Cellular Location Nucleus.

Tissue Location Testis specific. In testis, it is expressed in developing germ cells, but not in Leydig cells. Weakly or not expressed in other tissues.

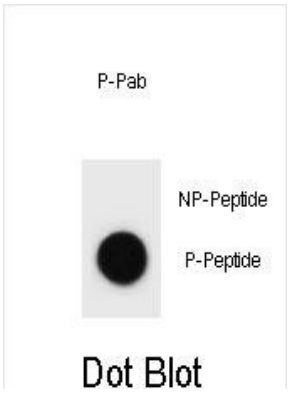
Background

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. Studies of similar genes in chick and Drosophila suggest that this cyclin may associate with CDC2 and CDK2 kinases, and be required for proper spindle reorganization and restoration of the interphase nucleus. Two transcript variants encoding different isoforms have been found for this gene.

References

Cheng, J., et al. Science 308(5725):1149-1154(2005)
Nguyen, T.B., et al. J. Biol. Chem. 277(44):41960-41969(2002)
Hrimech, M., et al. EMBO J. 21 (14), 3918 (2002) :
Lozano, J.C., et al. Biochem. Biophys. Res. Commun. 291(2):406-413(2002)
Mouland, A.J., et al. Virology 292(2):321-330(2002)

Images



Dot blot analysis of CCNB3 Antibody (Phospho T280) Phospho-specific Pab (Cat. #AP3841a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

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