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DATA SHEET

Rabbit Anti-Cyclin B3 (CCNB3) Polyclonal: RC0306

Intended Use: For Research Use Only

Description: 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. Cyclin B3 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. This cyclin may associate with CDC2 and CDK2 kinases, and be required for proper spindle reorganization and restoration of the interphase nucleus.

Specifications:

Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse, rat, cow, dog, horse, pig, sheep
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA, glycerol, and ≤0.09% sodium azide (NaN3).
Storage:	Store at 2°- 8°C.
Applications:	IHC, ELISA, WB

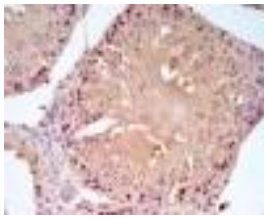
Package:

Description	Catalog No.	Size
Cyclin B3 (CCNB3) Concentrated	RC0306	1 ml

IHC Procedure*:

Positive Control Tissue:	Testis
Concentrated Dilution:	25-100
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human testis tissue stained with anti-Cyclin B3 using DAB

References:

1. A new subtype of bone sarcoma defined by BCOR-CCNB3 gene fusion. Pierron G, et al. Nat Genet. Mar 4;44(4):461-6, 2012.
2. Proteomic identification of overexpressed adenomatous polyposis coli and cyclin B3 during endoderm differentiation from human embryonic stem cells. Lee DH, et al. Pancreas. 2011 Mar;40(2):271-80, 2011.
3. Human cyclin B3. mRNA expression during the cell cycle and identification of three novel nonclassical nuclear localization signals. Tschöp K, et al. FEBS J. Apr;273(8):1681-95, 2006.
4. Molecular and immunochemical analyses of RB1 and cyclin D1 in human ductal pancreatic carcinomas and cell lines. Huang L, et al. Mol Carcinog. Feb;15(2):85-95, 1996.
5. Identification of a novel vertebrate cyclin: cyclin B3 shares properties with both A- and B-type cyclins. Gallant P, et al. EMBO J. Feb 1;13(3):595-605, 1994.

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