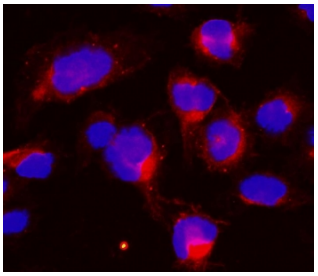
CCNB1 Antibody / Cyclin B1 (RQ5963)

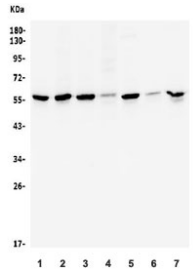
Catalog No.	Formulation	Size
RQ5963	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

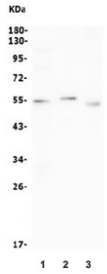
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P14635
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 2-4ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This CCNB1 antibody is available for research use only.



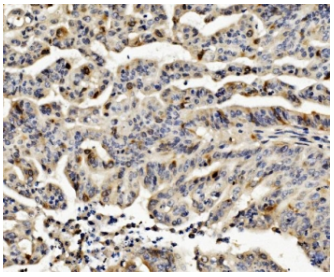
Immunofluorescent staining of FFPE human U-2 OS cells with CCNB1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



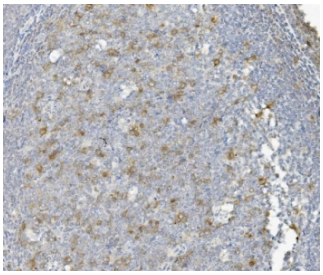
Western blot testing of human 1) HeLa, 2) HEK293, 3) Jurkat, 4) Raji, 5) K562, 6) U-2 OS and 7) Caco-2 lysate with CCNB1 antibody. Expected molecular weight: 48-60 kDa.



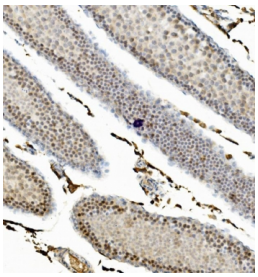
Western blot testing of 1) rat spleen, 2) mouse thymus and 3) mouse NIH 3T3 lysate with CCNB1 antibody. Expected molecular weight: 48-60 kDa.



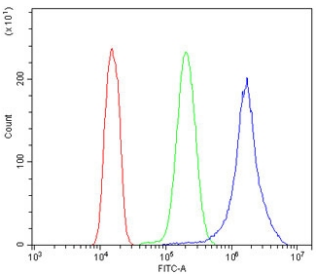
IHC staining of FFPE human rectal cancer with CCNB1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil with CCNB1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat testis with CCNB1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of human A431 cells with CCNB1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CCNB1 antibody.

Description

G2/mitotic-specific cyclin-B1 is a protein that in humans is encoded by the CCNB1 gene. It is mapped to 5q13.2. The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product complexes with p34(cdc2) to form the maturation-promoting factor (MPF). The encoded protein is necessary for proper control of the G2/M transition phase of the cell cycle.

Application Notes

Optimal dilution of the CCNB1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-L383) was used as the immunogen for the CCNB1 antibody.

Storage

After reconstitution, the CCNB1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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