

# Cyclin B2 Rabbit mAb

Catalog No: #49130



Package Size: #49130-1 50ul #49130-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

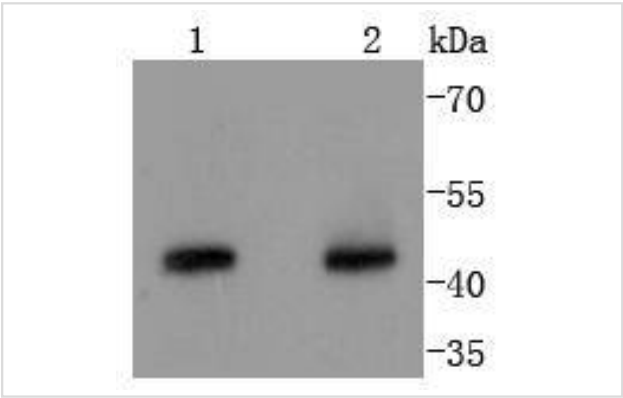
## Description

Product Name	Cyclin B2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD2045
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	ccnb2 antibody CCNB2_HUMAN antibody CycB2 antibody Cyclin B2 antibody G2 mitotic specific cyclin B2 antibody G2/mitotic specific cyclin B2 antibody G2/mitotic-specific cyclin-B2 antibody HsT17299 antibody MGC108931 antibody MGC140694 antibody
Accession No.	Swiss-Prot#:O95067
Uniprot	O95067
GeneID	9133;
Calculated MW	45 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

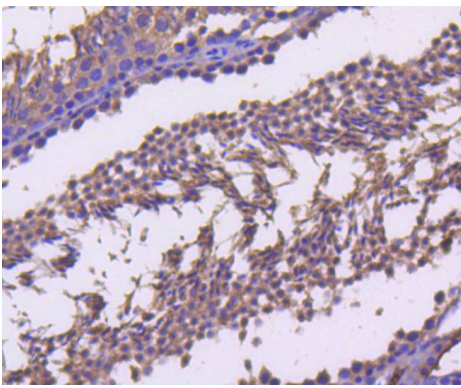
## Application Details

WB: 1:1,000IHC: 1:50-1:200ICC: 1:50-1:200

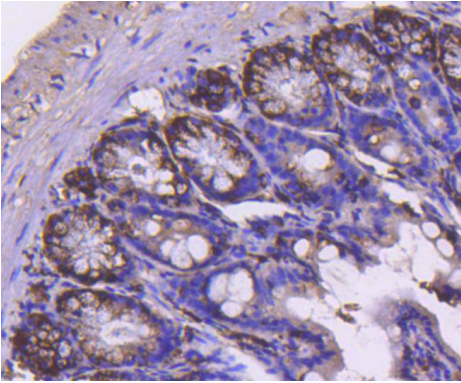
## Images



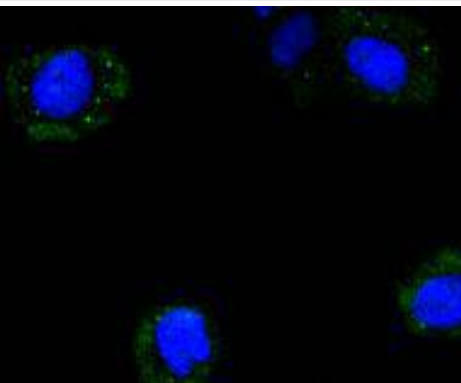
Western blot analysis of Cyclin B2 on different lysates using anti-Cyclin B2 antibody at 1/1,000 dilution. Positive control:  
Lane 1: HeLa                      Lane 2: K562



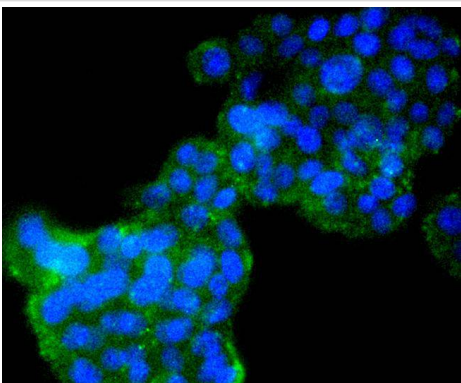
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Cyclin B2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Cyclin B2 antibody. Counter stained with hematoxylin.



ICC staining Cyclin B2 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cyclin B2 in PC-12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

In eukaryotic cells, mitosis is initiated following the activation of a protein kinase known variously as maturation-promoting factor, M-phase specific histone kinase or M-phase kinase. This protein kinase is composed of a catalytic subunit (Cdc2), a regulatory subunit (cyclin B) and a low molecular weight subunit (p13-Suc 1). The Cdc/cyclin enzyme is subject to multiple levels of control of which the regulation of the catalytic subunit by tyrosine phosphorylation is the best understood. Tyrosine phosphorylation inhibits the Cdc2/cyclin B enzyme and tyrosine dephosphorylation, occurring at the onset of mitosis, directly activates the pre-MPF complex. Evidence has established that B-type cyclins not only act on M-phase regulatory subunits of the Cdc2 protein kinase, but also activate the Cdc25A and Cdc25B endogenous tyrosine phosphatase, of which Cdc2 is the physiological substrate. The two B-type cyclins, cyclin B1 and cyclin B2, have been shown to have distinct tissue distributions.

## References

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Note: This product is for in vitro research use only