# Cyclin B2 Rabbit mAb

Catalog No: #49130

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

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

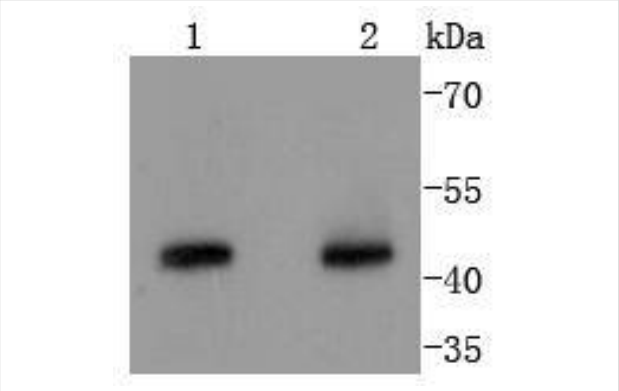
## Description

| | |
|---|---|
| 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 |

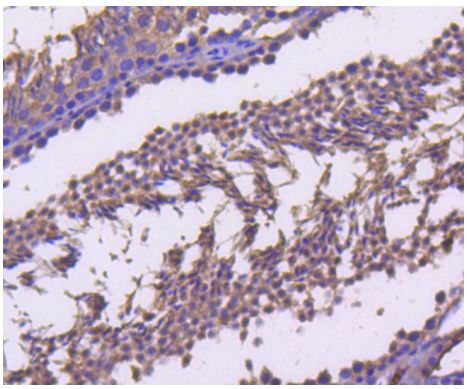
## Application Details

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

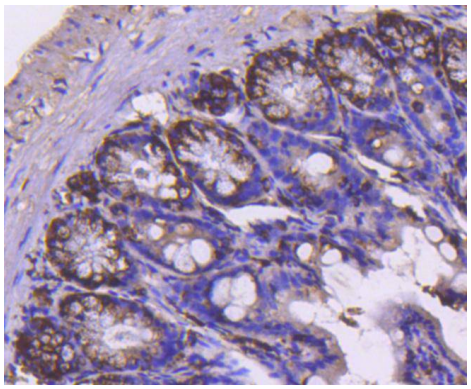
## Images



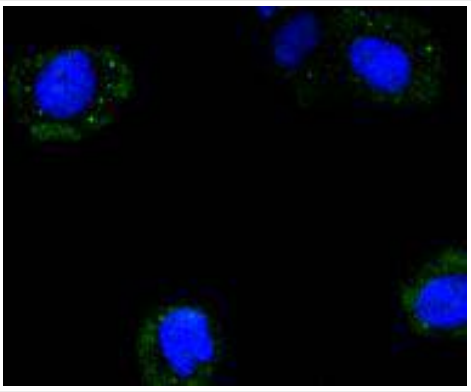

Western blot analysis of Cyclin B2 on different lysates using anti-Cyclin B2 antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela Lane 2: K562



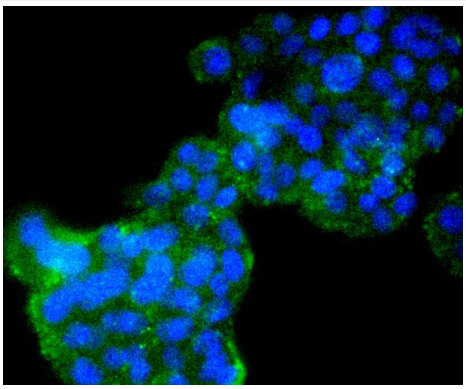
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Cyclin B2 antibody. Counter stained with hematoxylin.



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

Note: This product is for in vitro research use only