

For Research Use Only

# Cyclin B2 Monoclonal antibody

Catalog Number: 67726-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 67726-1-Ig	<b>GenBank Accession Number:</b> BC105086	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1600 µg/ml	<b>GeneID (NCBI):</b> 9133	<b>CloneNo.:</b> 2G8B7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O95067	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> cyclin B2	
<b>Immunogen Catalog Number:</b> AG16329	<b>Calculated MW:</b> 398 aa, 45 kDa	
	<b>Observed MW:</b> 45 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IF-P, IHC, WB, ELISA

**Species Specificity:**  
Human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** DU 145 cells, HeLa cells, K-562 cells, Jurkat cells, HEK-293 cells, U2OS cells

**IHC:** human breast cancer tissue,

**IF:** mouse testis tissue, PC-12 cells

## Background Information

Cyclin B2 (CCNB2) is a member of cyclin family proteins, which regulate the activities of cyclin dependent kinases (CDKs) and different cyclins function spatially and temporally in specific phases of the cell cycle. Cyclin B2 serves a key role in progression of G2/M transition. Cyclin B2 has been found to be up-regulated in a variety of human cancers, such as adrenocortical carcinoma, breast carcinoma, colorectal adenocarcinoma, pituitary adenoma and gastric cancer. The aberrant expression of Cyclin B2 deregulates spindle checkpoints in the cell cycle and results in chromosomal instability (CIN), one of the signature phenotypes of most cancers. Moreover, serum circulating Cyclin B2 mRNA expression has been found increased in cancer patients and associated with cancer stage and metastasis status.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

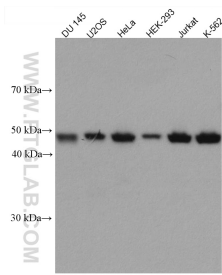
T: 4006900926

E: Proteintech-CN@ptglab.com

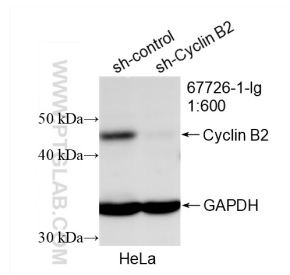
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

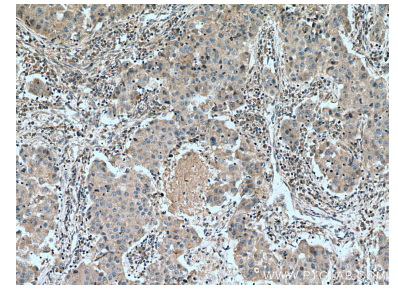
## Selected Validation Data



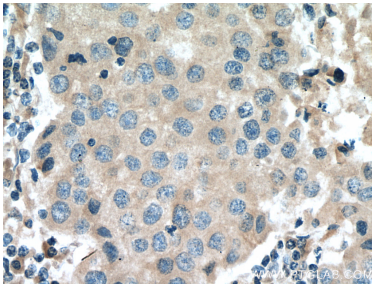
Various lysates were subjected to SDS PAGE followed by western blot with 67726-1-Ig (CCNB2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



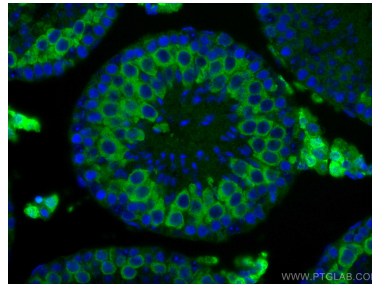
WB result of Cyclin B2 antibody (67726-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cyclin B2 transfected HeLa cells.



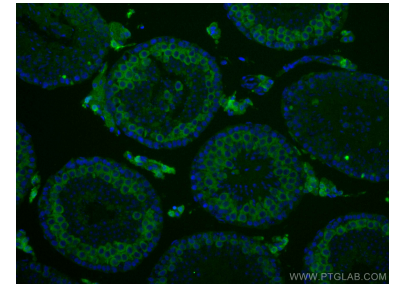
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67726-1-Ig (Cyclin B2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



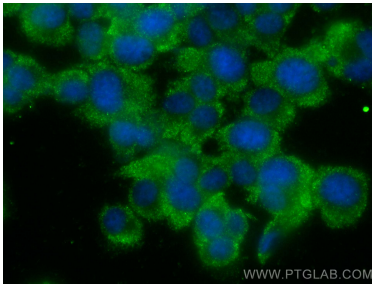
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67726-1-Ig (Cyclin B2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using Cyclin B2 antibody (67726-1-Ig, Clone: 2G8B7) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using Cyclin B2 antibody (67726-1-Ig, Clone: 2G8B7) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using Cyclin B2 antibody (67726-1-Ig, Clone: 2G8B7) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).