

Cyclin B1 Monoclonal Antibody (GNS1)

Product Details	
Size	500 µL
Species Reactivity	Hamster, Human, Mouse
Published Species	Bovine, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	GNS1
Conjugate	Unconjugated
Immunogen	Human cyclin B1 protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10987286

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	14 Publications
Immunocytochemistry (ICC/IF)	Assay-dependent	3 Publications
Flow Cytometry (Flow)	Assay-dependent	-
Immunoprecipitation (IP)	2 µg/mL	3 Publications

Product Specific Information

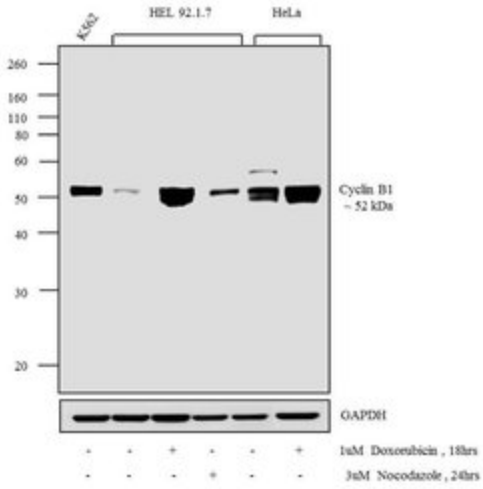
MA5-14319 targets Cyclin B1 in FACS, IF, IP, and WB applications and shows reactivity with Hamster, Human, and mouse samples.

The MA5-14319 immunogen is human cyclin B1 protein.

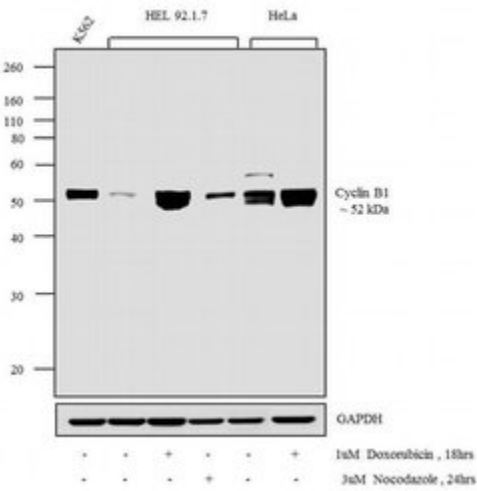
Advanced Verification Data

Cyclin B1 Antibody (MA5-14319)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Cyclin B1 using Cyclin B1 Mouse Monoclonal Antibody (Product # MA5-14319) shows increased expression of Cyclin B1 in HeL 92.1.7 and HeLa upon doxorubicin and/or nocodazole treatment. Cell treatment validation info.



Product Images For Cyclin B1 Monoclonal Antibody (GNS1)



Cyclin B1 Antibody (MA5-14319) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of K562 (Lane 1), HEL 92.1.7 (Lane 2), HEL 92.1.7 treated with 1uM doxorubicin for 18 hour (Lane 3), HEL 92.1.7 treated with 3uM nocodazole for 24 hours (Lane 4), HeLa (Lane 5), HeLa treated with 1uM doxorubicin for 18 hour (Lane 6). The blots were probed with Anti-Cyclin B1 Mouse Monoclonal Antibody (Product # MA5-14319, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 52 kDa band corresponding to Cyclin B1 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

Cyclin B1 Antibody (MA5-14319) in WB

Western blot of Cyclin B1 using Cyclin B1 Monoclonal Antibody (Product # MA5-14319) on MAD109 Cells.



[View more figures on thermofisher.com](#)

20 References

Western Blot (14)

Proceedings of the National Academy of Sciences of the United States of America

Mechanism of APC/CCDC20 activation by mitotic phosphorylation.

"MA5-14319 was used in western blot to study the mechanism responsible for the activation of mitotic phosphorylation by APC/CCDC20"

Authors: Qiao R, Weissmann F, Yamaguchi M, Brown NG, VanderLinden R, Imre R, Jarvis MA, Brunner MR, Davidson IF, Litos G, Haselbach D, Mechtler K, Stark H, Schulman BA, Peters JM

Species
Not Applicable

Dilution
1:1000

Year
2016

The Journal of biological chemistry

Degradation of the Separase-cleaved Rec8, a Meiotic Cohesin Subunit, by the N-end Rule Pathway.

"Published figure using Cyclin B1 monoclonal antibody (Product # MA5-14319) in Western Blot"

Authors: Liu YJ, Liu C, Chang Z, Wadas B, Brower CS, Song ZH, Xu ZL, Shang YL, Liu WX, Wang LN, Dong W, Varshavsky A, Hu RG, Li W

Species
Not Applicable

Dilution
Not Cited

Year
2016

[View more WB references on thermofisher.com](#)

Immunocytochemistry (3)

Virology

A cyclin-binding motif in human papillomavirus type 18 (HPV18) E1^{E4} is necessary for association with CDK-cyclin complexes and G2/M cell cycle arrest of keratinocytes, but is not required for differentiation-dependent viral genome amplification or L1 capsid protein expression.

"MA5-14319 was used in immunocytochemistry to study the role of a HPV18 cyclin-binding motif in CDK-cyclin complex association and G2/M cell cycle arrest in keratinocytes"

Authors: Knight GL, Pugh AG, Yates E, Bell I, Wilson R, Moody CA, Laimins LA, Roberts S

Species
Human

Dilution
Not Cited

Year
2011

Current biology : CB

Mitotic checkpoint slippage in humans occurs via cyclin B destruction in the presence of an active checkpoint.

"MA5-14319 was used in immunocytochemistry to study the role of cyclin B destruction in mitotic checkpoint slippage in humans"

Authors: Brito DA, Rieder CL

Species
Human

Dilution
1:100

Year
2006

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

IP (3)

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