

Anti-Cyclin A Ccna2 Antibody (Monoclonal, CY-A1)

Catalog Number: MA1032

About Ccna2

The mammalian A-type cyclin family consists of 2 members, cyclin A1 (CCNA1) and cyclin A2 (CCNA2). Human cyclin A gene is assigned to 4q26-q27. Cyclin A protein is synthesized and localized into the nucleus at the onset of S phase in nontransformed mammalian fibroblasts.

Submit a product review to Biocompare.com

[Submit a review of this product](#) to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Overview

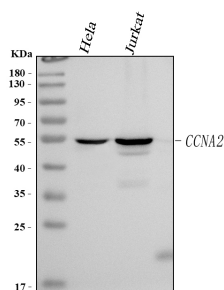
Product Name	Anti-Cyclin A Ccna2 Antibody (Monoclonal, CY-A1)
Reactive Species	Bovine, Human, Mouse
Description	Boster Bio Anti-Cyclin A Ccna2 Antibody (Monoclonal, CY-A1) catalog # MA1032. Tested in ICC, WB applications. This antibody reacts with Bovine, Human, Mouse.
Application	ICC, WB
Clonality	Monoclonal CY-A1
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P51943

Technical Details

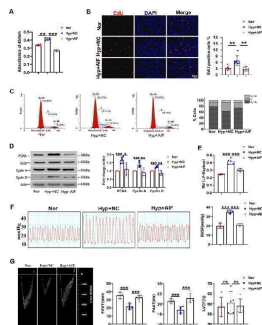
Immunogen	Recombinant bovine cyclin A.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG2a
Form	Lyophilized

Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Immunocytochemistry , 1ug/ml, Human, bovine , mouse, - Western blot, 0.5-1ug/ml, Human, bovine , mouse

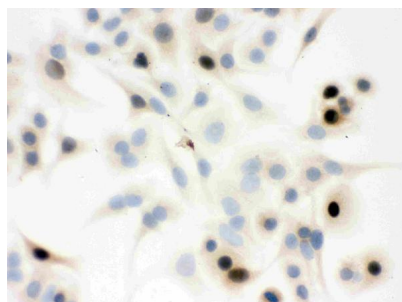
Anti-Cyclin A Ccna2 Antibody (Monoclonal, CY-A1) (MA1032) Images



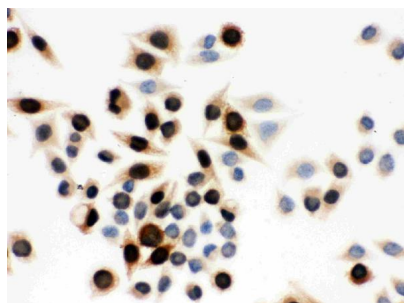
Western blot analysis of Cyclin A using anti-Cyclin A antibody (MA1032). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human Jurkat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Cyclin A antigen affinity purified monoclonal antibody (Catalog # MA1032) at 1 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Cyclin A at approximately 55 kDa. The expected band size for Cyclin A is at 49 kDa.



AIF blocks hypoxia-induced progression of PH in vitro and in vivo. A Hypoxia increased the viability of PSMCs after growth arrest for 24 h, and this effect was decreased by AIF (n = 4). B Pretreatment with an AIF overexpression plasmid blocked the effects of hypoxia on EdU incorporation in cells (n = 6). Scale bars: 50 um. C Cell cycle analysis by flow cytometry indicated that hypoxia stimulated cell progression into G₂/M + S phase, and this effect was inhibited by AIF overexpression (n = 3). D Effects of AIF on the expression of PCNA, Cyclin A and Cyclin D under hypoxia (n = 4-5). E Represents weight ratio of the right ventricular (RV)/left ventricular (LV) + Septum (n = 6); F Represents the right ventricular systolic pressure (RVSP) from mice (n = 5); G pulmonary artery velocity time integral (PAVTI), pulmonary artery acceleration time (PAAT) and left ventricular ejection fraction (LVEF) of the hypoxic mouse model infected with AAV5-NC and AAV5-AIF (n = 6). All data are presented as the means ± standard deviation. *p < 0.05; **p < 0.01; ***p < 0.001; Nor normoxia, Hyp hypoxia, NC negative control Index in PubMed under a CC BY license. PMID: 35090552



ICC analysis of Cyclin A using anti-Cyclin A antibody (MA1032). Cyclin A was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1 ug/ml mouse anti-Cyclin A Antibody (MA1032) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1021) with DAB as the chromogen.



ICC analysis of Cyclin A using anti-Cyclin A antibody (MA1032). Cyclin A was detected in an immunocytochemical section of SMMC-7721 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1 ug/ml mouse anti-Cyclin A Antibody (MA1032) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1021) with DAB as the chromogen.

8 Publications Citing This Product

1. PubMed ID: 31974617, Wang S,Zhang C,Zhang X.Downregulation of long non-coding RNA ANRIL promotes proliferation and migration in hypoxic human pulmonary artery smooth muscle cells.Mol Med Rep.2020 Feb;21(2):589-596.doi:10.3892/mmr.2019.10887.Epub 2019 Dec 17.PMID:31974617; PMC
2. PubMed ID: 24194897, Li M, Tian L, Wang L, Yao H, Zhang J, Lu J, Sun Y, Gao X, Xiao H, Liu M. Plos One. 2013 Oct 23;8(10):E77829. Doi: 10.1371/Journal.Pone.0077829. Ecollection 2013. Down-Regulation Of Mir-129-5P Inhibits Growth And Induces Apoptosis In Laryngeal Squa...
3. PubMed ID: 25151579, Zhao P, Li Y, Gao G, Wang S, Yan Y, Zhan X, Liu Z, Mao Z, Chen S, Wang L. Eur J Med Chem. 2014 Oct 30;86:165-74. Doi: 10.1016/J.Ejmech.2014.08.049. Epub 2014 Aug 15. Design, Synthesis And Biological Evaluation Of N-Alkyl Or Aryl Substituted Isoind...

Visit bosterbio.com/anti-cyclin-a-antibody-monoclonal-ma1032-boster.html to see all 8 publications.

Anti-Cyclin A Ccna2 Antibody (Monoclonal, CY-A1)

For Research Use Only. Not for use in diagnostic procedures.