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antibody and ELISA experts

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Anti-Cyclin A2 Rabbit Monoclonal Antibody

Catalog Number: M00700-1

About CCNA2

Dynamin-related GTPase required for mitochondrial fusion and regulation of apoptosis. May form a diffusion barrier for proteins stored in mitochondrial cristae. Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space.

Overview

Product Name	Anti-Cyclin A2 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Cyclin A2 Rabbit Monoclonal Antibody catalog # M00700-1. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal HOC-3
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P20248

Technical Details

Immunogen	A synthesized peptide derived from human Cyclin A2
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used:

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	WB 1:1000-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200

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Anti-Cyclin A2 Rabbit Monoclonal Antibody (M00700-1) Images

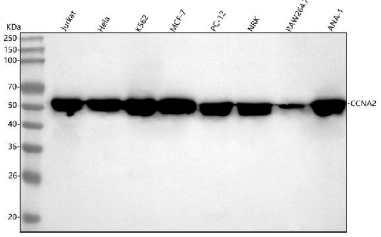

Figure 1. Western blot analysis of Cyclin A2 using anti-Cyclin A2 antibody (M00700-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Jurkat whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human K562 whole cell lysates,
Lane 4: human MCF-7 whole cell lysates,
Lane 5: rat PC-12 whole cell lysates,
Lane 6: rat NRK whole cell lysates,
Lane 7: mouse RAW264.7 whole cell lysates,
Lane 8: mouse ANA-1 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 rabbit anti-Cyclin A2 antigen affinity purified monoclonal antibody (Catalog # M00700-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cyclin A2 at approximately 55 kDa. The expected band size for Cyclin A2 is at 49 kDa.

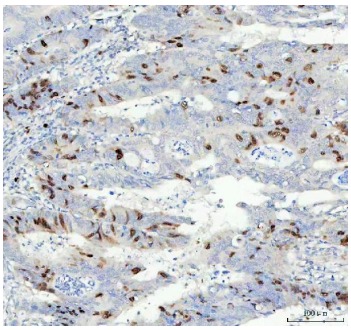

Figure 2. IHC analysis of Cyclin A2 using anti-Cyclin A2 antibody (M00700-1).
Cyclin A2 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Cyclin A2 Antibody (M00700-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

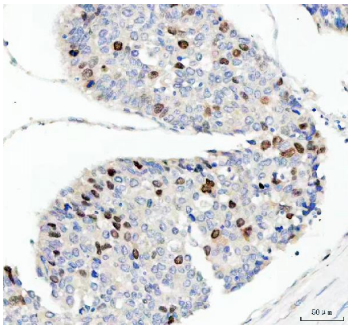

Figure 3. IHC analysis of Cyclin A2 using anti-Cyclin A2 antibody (M00700-1).
Cyclin A2 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Cyclin A2 Antibody (M00700-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C.

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The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

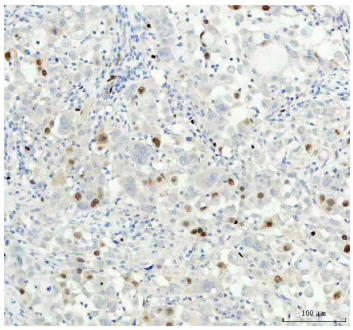


Figure 4. IHC analysis of Cyclin A2 using anti-Cyclin A2 antibody (M00700-1).
Cyclin A2 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Cyclin A2 Antibody (M00700-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

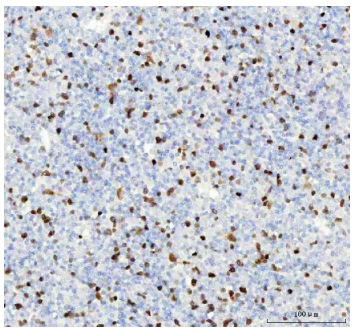
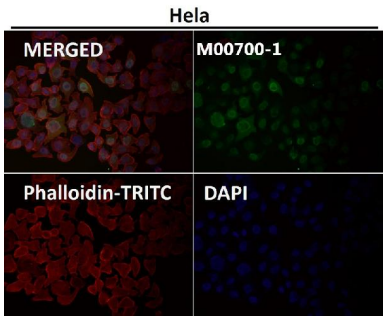
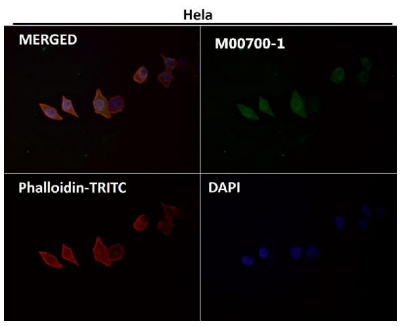


Figure 5. IHC analysis of Cyclin A2 using anti-Cyclin A2 antibody (M00700-1).
Cyclin A2 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Cyclin A2 Antibody (M00700-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

3 Publications Citing This Product

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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: 25918708, Wang C, Ge Q, Chen Z, Hu J, Li F, Song X, Xu H, Ye Z. Biomed Res Int. 2015;2015:304753. Doi: 10.1155/2015/304753. Epub 2015 Mar 30. A New Double Stranded Rna Suppresses Bladder Cancer Development By Upregulating P21 (Waf1/Cip1) Expression.

3. PubMed ID: 24628936, Activin A induces growth arrest through a SMAD- dependent pathway in hepatic progenitor cells

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