

Datasheet for 200-301-P30**Cyclin A Antibody****Overview**

Description:	Anti-Cyclin A (MOUSE) Antibody - 200-301-P30
Item No.:	200-301-P30
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Bovine
Host Species:	Mouse

Product Details

Background:	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. This antibody is suitable for researchers interested in cancer research, apoptosis, autoimmune disease, neurodegenerative disease, cardiovascular disease, MAP Kinase Signaling, AKT Signaling, Inflammatory Signaling, and Cell Cycle research.
Synonyms:	CCN1, CCNA, Cyclin-A2, Cyclin-A
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	CY-A1
Format:	IgG2a

Target Details

Gene Name:	CCNA2
Reactivity:	Human, Mouse, Bovine
Immunogen Type:	Recombinant Protein
Immunogen:	Cyclin A antibody was produced in mice by repeated immunizations with a recombinant protein corresponding to bovine cyclin A.

Purity/Specificity: Anti-Cyclin A antibody was purified from mouse ascites by protein A chromatography. This product reacts with human, mouse, and bovine. Cross reactivity with Cyclin A from other sources has not been determined.

Relevant Links:

- [UniProtKB - P30274](#)
- [GeneID - 281667](#)
- [NCBI - NP_001068591.1](#)

Application Details

Tested Applications: IHC, WB

Application Note: Anti-Cyclin A is tested for Immunocytochemistry-P and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~48 kDa corresponding to the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IHC: 1:100-1:500

WB: 0.5-1µg/ml

Formulation

Physical State: Lyophilized

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 1.2% sodium acetate

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: 2mg BSA

Reconstitution Volume: 1.0 mL

Reconstitution Buffer: Neutral PBS

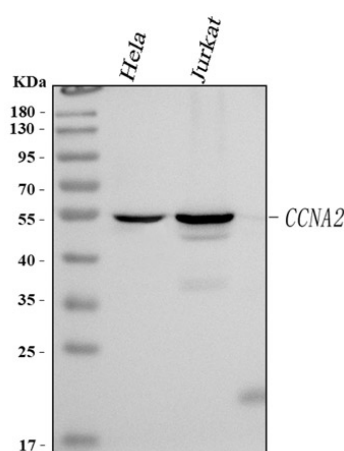
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



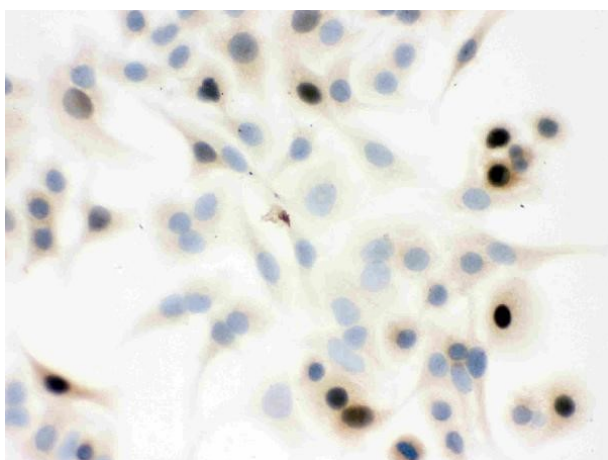
Western Blot

Western blot analysis of Cyclin A using anti-Cyclin A antibody. 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 µg 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 affinity purified mouse anti-Cyclin A antigen monoclonal antibody at 1 µg/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 1:10,000 for 1.5 hour at RT.

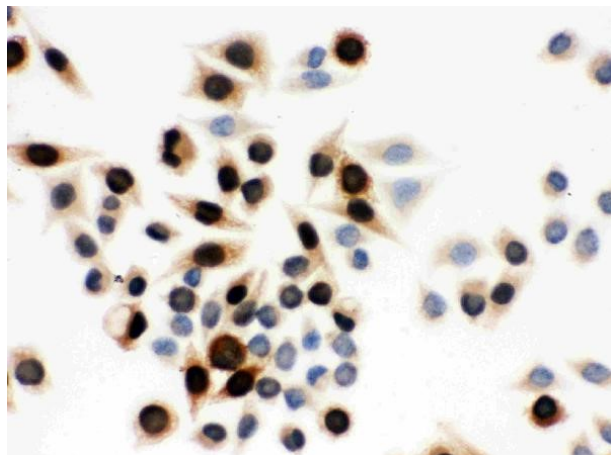
The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cyclin A at approximately 55 kDa. The expected band size for Cyclin A is at 49 kDa.



Immunocytochemistry

Immunocytochemistry analysis of Cyclin A using anti-Cyclin A antibody.

Cyclin A was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. Incubated with 1 µg/ml mouse anti-Cyclin A Antibody 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) with DAB as the chromogen.

**Immunocytochemistry**

Immunocytochemistry analysis of Cyclin A using anti-Cyclin A antibody.

Cyclin A was detected in an immunocytochemical section of SMMC-7721 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1 µg/ml mouse anti-Cyclin A Antibody 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) with DAB as the chromogen.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.