

# Product Datasheet

## Cyclin A2 Antibody - BSA Free NBP1-31330

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 3/4/2026 v.20.1

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**NBP1-31330**

Cyclin A2 Antibody - BSA Free

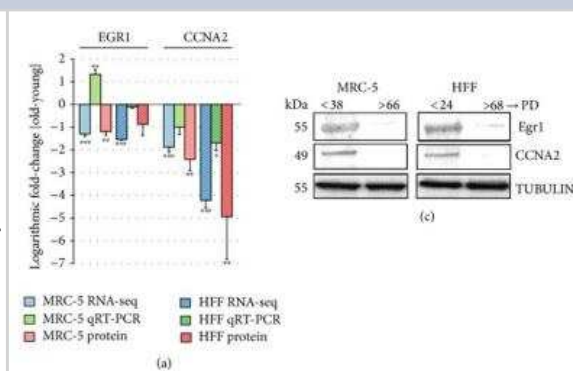
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 20% Glycerol
<b>Target Molecular Weight</b>	49 kDa

Product Description	
<b>Host</b>	Rabbit
<b>Gene ID</b>	890
<b>Gene Symbol</b>	CCNA2
<b>Species</b>	Human, Mouse, Rat, Monkey
<b>Reactivity Notes</b>	Pig (89%), Rabbit (83%), Bovine (84%).
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human Cyclin A2. The exact sequence is proprietary.

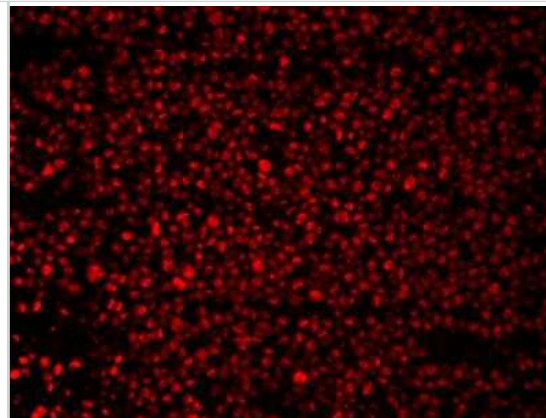
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000
<b>Application Notes</b>	Cyclin A2 antibody validated for IHC-P, WB from verified customer reviews.

**Images**

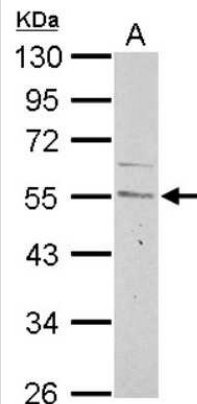
Western Blot: Cyclin A2 Antibody [NBP1-31330] - Comparison of expression changes between young and old MRC-5 and HFF fibroblasts measured by RNA-seq, qRT-PCR, and Western Blots. (a) CCNA2 is commonly downregulated. The colors of the bars indicate the measurement technique (blue: RNA-seq; green: qRT-PCR; red: Western Blots/protein expression). Error bars indicate standard deviation from the mean. Changes statistically different comparing young and old PD (RNA-seq: DESeq; rRT-PCR/Protein: Student's t-test; n = 3) are indicated with an asterisk: \* p < 0.05, \*\* p < 0.01, and \*\*\* p < 0.001. (c) The blots show the protein expression levels in MRC-5 and HFF cells at young compared to old PDs. The up- or downregulation was signified by the presence or absence of bands in Western Blots. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26339636>) licensed under a CC-BY license.



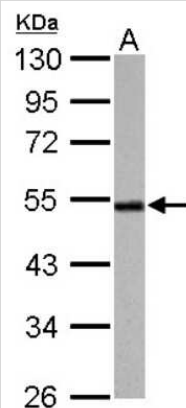
Immunohistochemistry-Paraffin: Cyclin A2 Antibody [NBP1-31330] - 293T cells stained with Cyclin A2 antibody. Image from verified customer review.



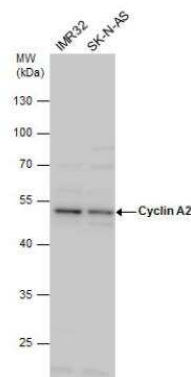
Western Blot: Cyclin A2 Antibody [NBP1-31330] - 30 ug Neuro2A whole cell lysate/extract 10% SDS-PAGE gel, antibody dilution 1:1000.



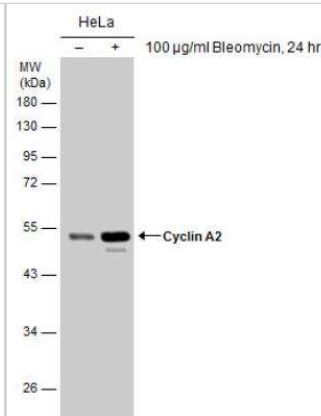
Western Blot: Cyclin A2 Antibody [NBP1-31330] - 30 ug PC-12 whole cell lysate/extract 10% SDS-PAGE gel, antibody dilution 1:1000.



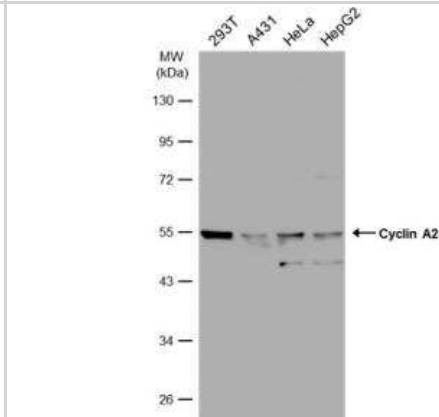
Western Blot: Cyclin A2 Antibody [NBP1-31330] - Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with Cyclin A2 antibody diluted at a dilution of 1:1000.



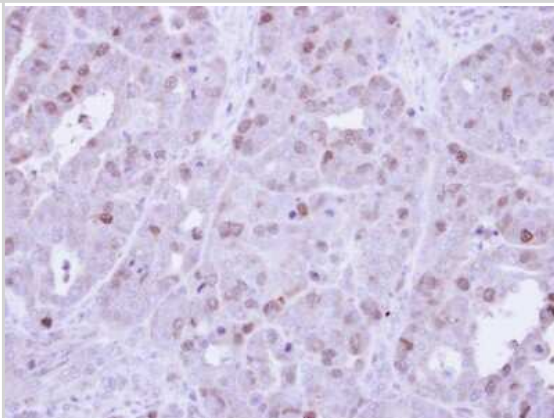
Western Blot: Cyclin A2 Antibody [NBP1-31330] - Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with Cyclin A2 antibody. HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



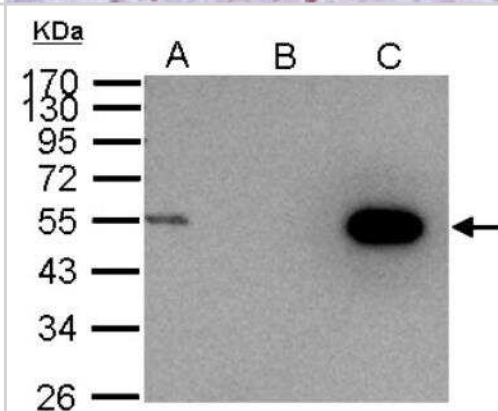
Western Blot: Cyclin A2 Antibody [NBP1-31330] - Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with Cyclin A2 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



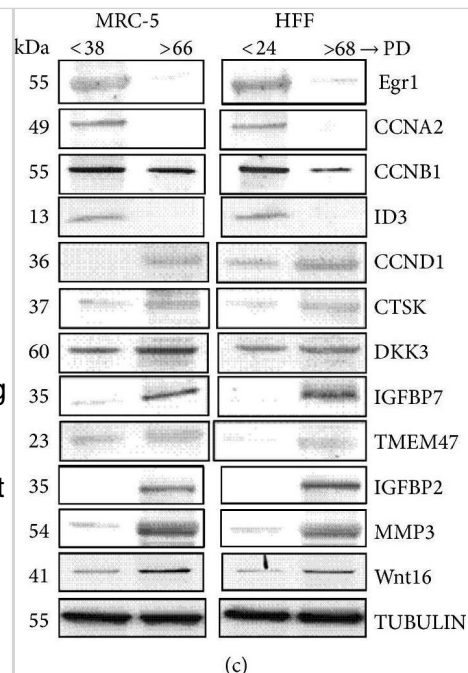
Immunohistochemistry-Paraffin: Cyclin A2 Antibody [NBP1-31330] - NCIN87 Xenograft, using cyclin A antibody at 1:500 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



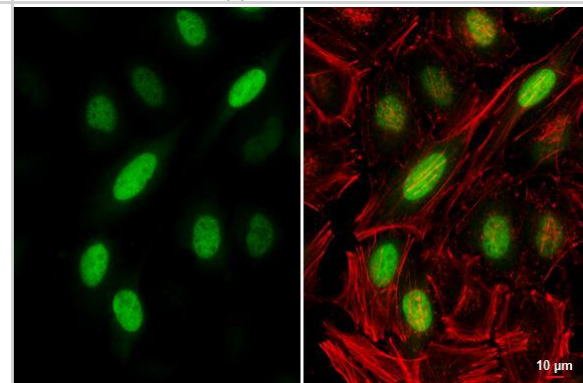
Immunoprecipitation: Cyclin A2 Antibody [NBP1-31330] - Sample: 1000 ug 293T whole cell lysate/extract A. 30 ug 293T whole cell lysate/extract, B. Control with 2.5 ug of preimmune rabbit IgG, C. Immunoprecipitation of Cyclin A2 protein by 2.5 ug of Cyclin A2 antibody 10% SDS-PAGE gel.



Western Blot: Cyclin A2 Antibody [NBP1-31330] - Comparison of expression changes between young & old MRC-5 & HFF fibroblasts measured by RNA-seq, qRT-PCR, & Western Blots. (a) Four genes commonly downregulated & (b) 8 genes commonly upregulated in both cell lines. (a, b) The colors of the bars indicate the measurement technique (blue: RNA-seq; green: qRT-PCR; red: Western Blots/protein expression). Solid colored bars represent MRC-5 while shaded boxes represent HFF cells. The height of the bars corresponds to the logarithmic fold-change (FC) of expression between the first & the last PD investigated here (RNA-seq: log<sub>2</sub> RPKM FC; qRT-PCR: log<sub>2</sub>- $\Delta\Delta$ CT; protein: log<sub>2</sub> expression ratio). Error bars indicate standard deviation from the mean. Changes statistically different comparing young & old PD (RNA-seq: DESeq; rRT-PCR/Protein: Student's t-test; n = 3) are indicated with an asterisk: \*p < 0.05, \*\*p < 0.01, & \*\*\*p < 0.001. (c) The blots show the protein expression levels in MRC-5 & HFF cells at young compared to old PDs. The up- or downregulation was signified by the presence or absence of bands in Western Blots. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26339636>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Cyclin A2 antibody detects Cyclin A2 protein at nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Cyclin A2 stained by Cyclin A2 antibody (NBP1-31330) diluted at 1:500. Red: phalloidin, a cytoskeleton marker, diluted at 1:100. Scale bar= 10  $\mu$ m.



## Publications

Baek SW, Mun JY, Jang IH et al. YAP1 activation is associated with the progression and response to immunotherapy of non-muscle invasive bladder cancer eBioMedicine 2022-07-01 [PMID: 35665684] (Western Blot, Mouse)

Kilgas S, Kiltie A, Ramadan K Immunofluorescence microscopy-based detection of ssDNA foci by BrdU in mammalian cells STAR Protocols 2021-12-01 [PMID: 34888531] (ICC/IF, Human)

Zanotti S, Kapetis D, Gibertini S et al. Botulinum toxin type A affects the transcriptome of cell cultures derived from muscle biopsies of controls and spastic patients. Toxicol In Vitro. 2018-03-06 [PMID: 29522793] (Human)

Sheng L, Jena PK, Hu Y et al. Hepatic inflammation caused by dysregulated bile acid synthesis is reversible by butyrate supplementation J. Pathol. 2017-09-11 [PMID: 28892150] (Mouse)

Marthandan S, Priebe S, Baumgart M et al. Similarities in Gene Expression Profiles during In Vitro Aging of Primary Human Embryonic Lung and Foreskin Fibroblasts. Biomed Res Int 2015-01-01 [PMID: 26339636] (WB, Human)

Pan J, Nakade K, Huang YC et al. Suppression of cell-cycle progression by Jun dimerization protein-2 (JDP2) involves downregulation of cyclin-A2. Oncogene 2010-11-01 [PMID: 20802531] (WB, Mouse)



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### **Products Related to NBP1-31330**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-98953-100ug	Recombinant Human Cyclin A2 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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