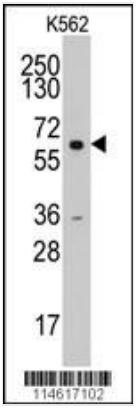
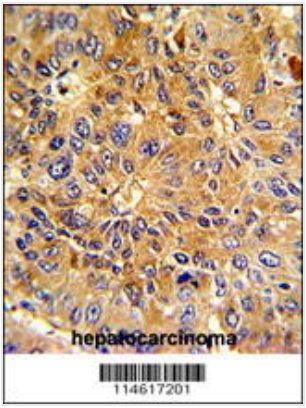
# CCNA2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

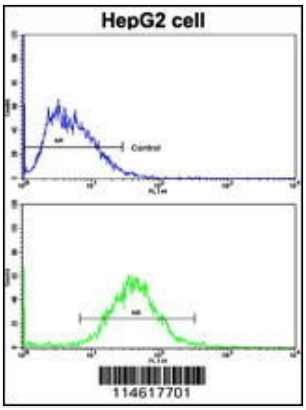
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|---|---|
| **Product Name** | CCNA2, Polyclonal Antibody |
| **Full Product Name** | CCNA2, NT (Cyclin-A2, Cyclin-A, CCN1, CCNA) (MaxLight 490) |
| **Product Gene Name** | anti-CCNA2 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490. |
| **Purity/Purification** | Purified by Ammonium Sulfate Precipitation. |
| **Specificity** | Recognizes human CCNA2. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 51.1 kDa (456aa) |
| **OMIM** | 123835 |
| **3D Structure** | ModBase 3D Structure for P20248 |
| **Immunogen** | Synthetic peptide at the N-term of human CCNA2 (KLH). |
| **Conjugate** | MaxLight490 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CCNA2 antibody** | Antibodies; Cyclin |
| **Applications Tested/Suitable for anti-CCNA2 antibody** | Immunohistochemistry (IHC), FLISA, Western Blot (WB) |
| **Application Notes for anti-CCNA2 antibody** | IHC: 1:50-1:100<br>FLISA: 1:1,000<br>WB: 1:50-1:100<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CCNA2 antibody** | MBS6471147 is an antibody targeting CCNA2. Also known as CCNA2, NT (Cyclin-A2, Cyclin-A, CCN1, CCNA) (MaxLight 490). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-CCNA2 antibody** | 1. Henglein B., Proc. Natl. Acad. Sci. USA 91:5490-5494(1994). 2. Wang J., Nature 343:555-557(1990). 3. Tsang, W.Y., J. Cell Biol. 178(4), 621-633 (2007). |
| **Other Notes** | Small volumes of anti-CCNA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-CCNA2 antibody**
Western blot analysis of anti-CCNA2(N-term) Pab in K562 cell line lysates (35ug/lane). CCNA2(arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-CCNA2 antibody**
Formalin-fixed and paraffin-embedded human hepatocarcinoma with Cyclin A (CCNA2) Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




**Flow Cytometry (FC/FACS) of anti-CCNA2 antibody**
Flow cytometric analysis of HepG2 cells using Cyclin A (CCNA2) Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCNA2. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 4502613 |
| **NCBI GeneID** | 890 |
| **NCBI Accession #** | NP_001228 |
| **UniProt Primary Accession #** | P20248 |
| **UniProt Secondary Accession #** | Q2M3U6; Q4W5P4; Q6LER8; A8K7B6 |
| **UniProt Related Accession #** | P20248 |
| **GenBank Nucleotide #** | NM_001237.4 |
| **NCBI Official Full Name** | cyclin-A2 |
| **NCBI Official Synonym Full Names** | cyclin A2 |
| **NCBI Official Symbol** | CCNA2 |
| **NCBI Official Synonym Symbols** | CCN1; CCNA |
| **UniProt Protein Name** | Cyclin-A2 |
| **Protein Family** | Cyclin |

| | |
|---|---|
| **UniProt Gene Name** | CCNA2 |
| **UniProt Synonym Gene Names** | CCN1; CCNA; Cyclin-A |
| **UniProt Entry Name** | CCNA2_HUMAN |
| **NCBI Protein Information** | cyclin-A2 |
| **NCBI Summary for CCNA2** | The protein encoded by this gene belongs to the highly conserved cyclin family, whose members function as regulators of the cell cycle. This protein binds and activates cyclin-dependent kinase 2 and thus promotes transition through G1/S and G2/M. [provided by RefSeq, Aug 2016] |
| **UniProt Comments for CCNA2** | CCNA2: a member of the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Expressed in all tissues tested. This cyclin binds and activates CDC2 or CDK2 kinases, and thus promotes both cell cycle G1/S and G2/M transitions.<br><br>Protein type: Cell cycle regulation; Nuclear receptor co-regulator<br><br>Chromosomal Location of Human Ortholog: 4q27<br><br>Cellular Component: nucleoplasm; male pronucleus; cytoplasm; female pronucleus; nucleus<br><br>Molecular Function: protein binding; protein kinase binding<br><br>Biological Process: mitosis; positive regulation of fibroblast proliferation; organ regeneration; response to glucagon stimulus; cell division; positive regulation of transcription, DNA-dependent; mitotic cell cycle G2/M transition DNA damage checkpoint; regulation of G2/M transition of mitotic cell cycle; Ras protein signal transduction; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; G2/M transition of mitotic cell cycle; response to estradiol stimulus |
| **Research Articles on CCNA2** | **1.** Findings suggest that ERK1/2-mediated Cdk2/cyclin A signaling pathway is involved in 7-hydroxy-5,4'-dimethoxy-2-arylbenzofuran (Ary) - induced G1/S-phase arrest. |
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