

## Rabbit anti-Mouse Cyclin A2/CCNA2 Polyclonal Antibody | anti-CCNA2 antibody

Anti-Cyclin A2/CCNA2 Antibody, Rabbit Polyclonal

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                               |
|-----------|--------|------------|----------------------------------------------------------------------------|
| AAA254500 | Rabbit | Mouse      | Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

Cyclin A2/CCNA2; Polyclonal Antibody; Anti-Cyclin A2/CCNA2 Antibody; Rabbit Polyclonal; CCNA2 Antibody; Rabbit PAb; Antigen Affinity Purified; cyclin A2; Anti-AA408589 Antibody; Anti-Ccn-1 Antibody; Anti-Ccn1 Antibody; Anti-Ccna Antibody; Anti-Cyca Antibody; Anti-CycA2 Antibody; anti-CCNA2 antibody

### PRODUCT SPECIFICATIONS

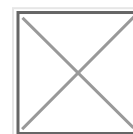
|                                                 |                                                                                                                                                                                                                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                      | Mouse                                                                                                                                                                                                                                                                 |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                     | Mouse CCNA2                                                                                                                                                                                                                                                           |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                     | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-CCNA2 antibody | IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                                                       |
| Immunogen                                       | A synthetic peptide corresponding to the C-terminus of the mouse CCNA2                                                                                                                                                                                                |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                     | Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the mouse CCNA2, and purified by antigen affinity chromatography.                                                                                                           |
| Preparation and Storage                         | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### WB (Western Blot)

Anti-CCNA2 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: Raji Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 60 kDa Observed band size: 55 kDa



#### IP (Immunoprecipitation)

CCNA2 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate 0.5 uL anti-CCNA2 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-CCNA2 rabbit polyclonal antibody, at 1:500 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution Developed using the DAB staining technique. Performed under reducing conditions. Predicted band size: 60 kDa Observed band size: 55 kDa



#### IF (Immunofluorescence)

Immunofluorescence staining of CCNA2 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human CCNA2 polyclonal antibody (1:5000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to cytoplasm and nucleus.

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CCNA2 antibody | CCNA2 (also known as CyclinA2) belongs to the highly conserved cyclin family and is significantly overexpressed in various cancer types. CCNA2 had significant predictive power in distant metastasis free survival, disease free survival, recurrence free survival and overall survival of ER+ breast cancer patients. We also found that CCNA2 was closely associated with tamoxifen resistance. CCNA2 is a biomarker for the prognosis of ER+ breast cancer and monitoring of tamoxifen efficacy. CCNA2 gene plays an important role in hair follicle initiation and development, and it is involved in the distinctive wool density of the Rex rabbit. It is an important candidate gene for wool density selection through marker-assisted selection. |
| Product Categories/Family for anti-CCNA2 antibody   | AMPK Signaling Pathway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### NCBI AND UNIPROT INFORMATION

|                                  |                                          |
|----------------------------------|------------------------------------------|
| NCBI GI #                        | 341940328                                |
| NCBI GeneID                      | 12428                                    |
| UniProt Accession #              | P51943; Q61459; Q8BRG1                   |
| Molecular Weight                 | 47,269 Da                                |
| NCBI Official Full Name          | Cyclin-A2                                |
| NCBI Official Synonym Full Names | cyclin A2                                |
| NCBI Official Symbol             | Ccna2                                    |
| NCBI Official Synonym Symbols    | Ccn1; Ccna; Cyca; Ccn-1; CycA2; AA408589 |
| NCBI Protein Information         | cyclin-A2                                |
| UniProt Protein Name             | Cyclin-A2                                |
| UniProt Gene Name                | Ccna2                                    |
| UniProt Synonym Gene Names       | Cyclin-A                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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