

# Anti-CCND2 / Cyclin D2 Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS17377

## Product Information

|                       |                        |
|-----------------------|------------------------|
| Application           | WB, IHC-P              |
| Primary Accession     | <a href="#">P30279</a> |
| Predicted             | Human, Mouse, Rat      |
| Host                  | Rabbit                 |
| Clonality             | Polyclonal             |
| Calculated MW         | 33067                  |
| Concentration (mg/ml) | 1 mg/ml                |

## Additional Information

|                          |                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 894                                                                                                                            |
| Alias Symbol             | CCND2                                                                                                                          |
| Other Names              | CCND2, KIAK0002, G1/S-specific cyclin D2, G1/S-specific cyclin-D2, Cyclin D2                                                   |
| Target/Specificity       | Human CCND2 / Cyclin D2                                                                                                        |
| Reconstitution & Storage | PBS, 0.1% sodium azide, 50% glycerol. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles. |
| Precautions              | Anti-CCND2 / Cyclin D2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.              |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | CCND2 {ECO:0000303   PubMed:1386336, ECO:0000312   HGNC:HGNC:1583}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Function          | Regulatory component of the cyclin D2-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition (PubMed: <a href="#">18827403</a> , PubMed: <a href="#">8114739</a> ). Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase (PubMed: <a href="#">18827403</a> , PubMed: <a href="#">8114739</a> ). Hypophosphorylates RB1 in early G(1) phase (PubMed: <a href="#">18827403</a> , PubMed: <a href="#">8114739</a> ). Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals (PubMed: <a href="#">18827403</a> , PubMed: <a href="#">8114739</a> ). |
| Cellular Location | Nucleus. Cytoplasm. Nucleus membrane. Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated into the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

nucleus through interaction with KIP/CIP family members

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.