

## G1/S-specific cyclin-D2

Catalog No: #AP78577

Package Size: #AP78577-1 50ug #AP78577-2 100ug #AP78577-3 1mg

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

|                       |   |
|-----------------------|---|
| Product Name          | G1/S-specific cyclin-D2   |
| Brief Description     | Recombinant Protein   |
| Host Species          | E.coli  |
| Purification          | Greater than 90% by SDS-PAGE  |
| Species Reactivity    | Human   |
| Immunogen Description | 1-240AA   |
| Other Names           | null  |
| Accession No.         | P30279Gene name:CCND2   |
| Uniprot               | P30279  |
| GeneID                | 894;  |
| Calculated MW         | 26.4  |
| Tag Info              | His   |
| Formulation           | 50mM NaH <sub>2</sub> PO <sub>4</sub> , 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)   |
| Storage               | Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended.<br>Store working aliquots at 4°C for up to one week. |

## Background

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. 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. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D2/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

## References

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Note: This product is for in vitro research use only