**Product Name: Cyclin D2 (6E11) Mouse Monoclonal Antibody**
**Catalog #: AMM03446**

## Summary

| | |
|---|---|
| **Production Name** | Cyclin D2 (6E11) Mouse Monoclonal Antibody |
| **Description** | Primary antibody |
| **Host** | Mouse |
| **Application** | WB |
| **Reactivity** | Human |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG2b |
| **Clonality** | Monoclonal Antibody |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. |
| **Purification** | Affinity Purified |

## Immunogen

| | |
|---|---|
| **Gene Name** | CCND2 |
| **Alternative Names** | KIAK0002. |
| **Gene ID** | 894 |
| **SwissProt ID** | P30279 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB: 1/500-1/1000 |
| **Molecular Weight** | Calculated MW: 33 kDa; Observed MW: 38 kDa |

## Background

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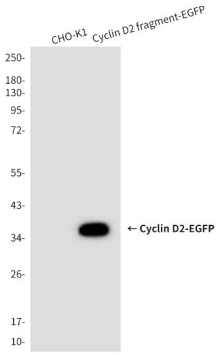
The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with CDK4 or CDK6 and functions as a regulatory subunit of the complex, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. Knockout studies of the homologous gene in mouse suggest the essential roles of this gene in ovarian granulosa and germ cell proliferation. High level expression of this gene was observed in ovarian and Ticular tumors. Mutations in this gene are associated with megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 3 (MPPH3).

## Research Area

Cell Biology

## Image Data




Western blot analysis of Cyclin D2 in CHO-K1 lysates and CHO-K1 transfected by Cyclin D2fragment EGFP fusion proteinlysates using Cyclin D2 antibody.

## Note

For research use only.