

Cyclin D2 Rabbit pAb

Catalog No.: A25593

Basic Information

Observed MW

Refer to figures

Calculated MW

33kDa

Category

Primary antibody

Applications

ELISA, IF/ICC

Cross-Reactivity

Mouse

Background

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 testicular tumors. Mutations in this gene are associated with megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 3 (MPPH3).

Recommended Dilutions

IF/ICC 1:50 - 1:200

Immunogen Information

Gene ID

894

Swiss Prot

P30279

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 181-280 of human Cyclin D2 (NP_001750.1).

Synonyms

MPPH3; KIAK0002; Cyclin D2

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

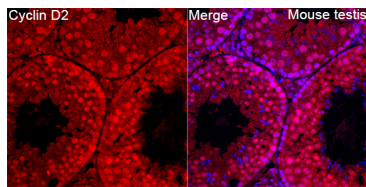
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Validation Data



Immunofluorescence analysis of paraffin-embedded Mouse testis tissue using Cyclin D2 Rabbit pAb (A25593) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.