



Product Information Sheet

Polyclonal Anti-Cyclin D2

Catalogue No. PA1225

Lot No. 09D01

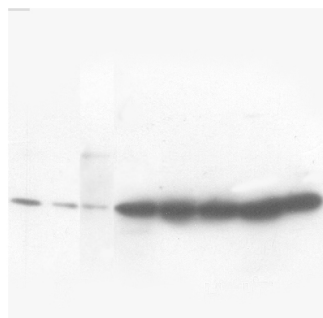
Ig type rabbit IgG

Size 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.



Lane 1 : Rat Testicular Lysate
Lane 2 : Rat Ovarian tissue Lysate
Lane 3 : Rat placenta tissue Lysate
Lane 4 : MCF7 Whole Cell Lysate
Lane 5 : MM231 Whole Cell Lysate
Lane 6 : HeLa Whole Cell Lysate
Lane 7 : HT1080 Whole Cell Lysate
Lane 8 : colo320 Whole Cell Lysate

Recommended application

Western blot

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human Cyclin D2, identical to the related rat and mouse sequence.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

Cyclin D2, also known as CCND2, is a human gene. 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. Cyclin D1, Cyclin D2 and Cyclin D3 are the members of the cyclin family. Cyclin D2 mapped to 12p13¹, since the CCND1 gene is on 11q13, this may be another bit of evidence of the homology of chromosomes 11 and 12. Choi D *et al* proved the expression of pseudogene cyclin D2 mRNA in the human ovary increases with age, which may be a novel marker for decreased ovarian function associated with the aging process.² And 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.

REFERENCE

1. Inaba, T.; Matsushime, H.; Valentine, M.; Roussel, M. F.; Sherr, C. J.; Look, A. T. : Genomic organization, chromosomal localization, and independent expression of human cyclin D genes. *Genomics* 13: 565-574, 1992.
2. Choi D, Yoon S, Lee E, *et al.* (2001). "The expression of pseudogene cyclin D2 mRNA in the human ovary may be a novel marker for decreased ovarian function associated with the aging process.". *J. Assist. Reprod. Genet.* 18 (2): 110–3.