



## Product Information Sheet

### Polyclonal Anti-Cyclin D (Magnetic Bead Conjugate)

<b>Catalogue No.</b> PA1225-M	<b>Immunogen</b> A synthetic peptide corresponding to a sequence at the C-terminal of human Cyclin D2, identical to the related rat and mouse sequence.
<b>Lot No.</b> 09D01	
<b>Ig type:</b> rabbit IgG1	<b>Purification</b> Immunogen affinity purified
<b>Size:</b> 100µg/Vial	<b>Contents</b> Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN <sub>3</sub> .
<b>Specificity</b> Human, mouse, rat. No cross reactivity with other proteins.	<b>Storage</b> Store at 4°C for frequent use.
<b>Recommended application</b> <i>Immunoprecipitation(IP)</i>	<b>Description:</b> This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

#### 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 12p13<sup>1</sup>, 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.<sup>2</sup> 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.

**For Research Use Only not for diagnostic and clinical use**

**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)



**For Research Use Only not for diagnostic and clinical use**

**Contact:** Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)