



Product Information Sheet

Monoclonal Anti-CDC6 (Sephacrose Bead Conjugate)

Catalogue No. MA1019-S

Lot No. 08A12

Clone: IMD-6

Ig type: mouse IgG1

Size: 200µl

Specificity

Human.

No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

Recombinant human Cdc6

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

BACKGROUND

In yeasts, Cdc6 (*Saccharomyces cerevisiae*) and Cdc18 (*Schizosaccharomyces pombe*) associate with the origin recognition complex (ORC) proteins to render cells competent for DNA replication. Cdc6 is overexpressed in human cancers, where it has a critical regulatory role in addition to DNA replication.¹ Yan et al. (1998) showed that Cdc6 is expressed selectively in proliferating but not quiescent mammalian cells, both in culture and within tissues in intact animals. During the transition from a growth-arrested to a proliferative state, transcription of mammalian Cdc6 is regulated by E2F proteins, as revealed by a functional analysis of the human Cdc6 promoter and by the ability of exogenously expressed E2F proteins to stimulate the endogenous Cdc6 gene. They conclude that expression of human Cdc6 is regulated in response to mitogenic signals through transcriptional control mechanisms involving E2F proteins, and that Cdc6 is required for initiation of DNA replication in mammalian cells.²

REFERENCE

1. Gonzalez, S.; Klatt, P.; Delgado, S.; Conde, E.; Lopez-Rios, F.; Sanchez-Cespedes, M.; Mendez, J.; Antequera, F.; Serrano, M. : Oncogenic activity of Cdc6 through repression of the INK4/ARF locus. *Nature* 440: 702-706, 2006.
2. Yan, Z.; DeGregori, J.; Shohet, R.; Leone, G.; Stillman, B.; Nevins, J. R.; Williams, R. S. : Cdc6 is regulated by E2F and is essential for DNA replication in mammalian cells. *Proc. Nat. Acad. Sci.* 95: 3603-3608, 1998.

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