

CDC6 Antibody [clone IMD-6] (R30018)

Catalog No.	Formulation	Size
R30018	0.5mg/ml with 1% BSA and 0.01% sodium azide if reconstituted with 0.2ml sterile 1X PBS	100 ug

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Availability	1-3 business days
Species Reactivity	Human
Format	Ascites
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	IMD-6
Purity	Ascites
Gene ID	990
Applications	Western Blot : 1-2ug/ml
Limitations	This CDC6 antibody is available for research use only.



Description

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. 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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CDC6 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Recombinant human protein was used as the immunogen for this CDC6 antibody.

Storage

After reconstitution, the CDC6 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.