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39-1018: Anti-CDC6 Monoclonal Antibody (Clone: DCS-180)

Clonality :	Monoclonal
Clone Name :	DCS-180
Application :	WB
Reactivity :	Human
Gene :	Cdc6
Gene ID :	23834
Uniprot ID :	O89033
Alternative Name :	Cell division control protein 6 homolog; CDC6-related protein; p62(cdc6); Cdc6
Isotype :	Mouse IgG1
Immunogen Information :	Recombinant human Cdc6.

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 though transcriptional control mechanisms involving E2F proteins, and that Cdc6 is required for initiation of DNA replication in mammalian cells.

Product Info

Amount :	100 µg/vial
Purification :	Ascites
Content :	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative. Reconstitute : Add 1ml of PBS buffer will yield a concentration of 100ug/ml.
Storage condition :	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 a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 1-2Î¼g/ml