

CDC6 (CLONE 6-37) MOUSE MONOCLONAL ANTIBODY

Catalog Number: PBT-2122

Description: The cdc6 protein, originally described in budding yeast (cdc6p), is essential and limiting for DNA

synthesis. The protein functions as a replication initiation protein and as such is involved in the early steps of replication in eukaryotes serving as a "clamp-loader" for assembly of MCM proteins onto the replicating DNA. Recently the human homolog of the yeast cdc6 protein has been identified. The human cdc6 protein, p62cdc6, maps to chromosome 17q21.3 very close to the map position of the BRCA1 gene. Cdc6 is activated at the G1/S border by the activity of E2F3 and is expressed as a nuclear protein only in proliferating cells and not in quiescent cells. Recently cdc6 has been shown to interact specifically with the active cyclin A/cdk2 complex resulting in the phosphorylation of the cdc6 protein and a change in localization to the cytoplasmic compartment. Structurally, the cdc6 protein contains a cyclin dependent phosphorylation site, destruction boxes, a nucleotide binding/ATPase domain, and a potential leucine zipper suggesting an interaction with other proteins. Interestingly, the cdc6 protein has also been identified in a two-hybrid screen

looking for PCNA interacting proteins.

Size: 100 ug

The vial is provided with a 10% overfill. Maximum recovery can be obtained by centrifuging the

vial briefly to collect any solution on the cap and tube sides.

Species Cross-Reactivity: Human, primate. Not mouse or rat.

Application/Dilutions: Western blot: 2.5 ug/ml

Source: Mice were immunized with recombinant human cdc6 protein and fusing the splenocytes with

NS1/Ag4-1 mouse myeloma cells.

Form/Storage: purified IgG₁ with 50% glycerol, 0.01% sodium azide and 1.0 mg/ml BSA. Store at -20° C.

Avoid multiple freeze/thaw cycles.

FOR RESEARCH USE ONLY