



PROTEIN BIOTECHNOLOGIES

CHROMATIN ASSEMBLY FACTOR-1 (CAF-1; CLONE 1SS-48) MOUSE MONOCLONAL ANTIBODY

Catalog Number: PBT-2132

Description: Chromatin assembly factor-1 (CAF-1) is a multi protein complex that functions to assemble nucleosomes in a replication-dependent fashion. The CAF-1 complex is composed of three subunits, p150, p60 and p48 in stoichiometric amounts. The composition of CAF-1 is conserved among human Drosophila and yeast. Human CAF-1 deposits newly synthesized, acetylated histones onto replicated DNA where it localizes in S-phase cells. Localization of the CAF-1 complex to the newly synthesized DNA is mediated in part by PCNA which functions to "mark" the appropriate places for loading of CAF-1 and in fact, PCNA may be co-precipitated with CAF-1. During G1, G2, and S-phases, p150/p60 is found in a complex with a subfraction of p48 in the nucleus. During mitosis there is a hyperphosphorylation of the p60 subunit and a corresponding enrichment in the cytosolic fraction of the p150 and p60 proteins. While characteristically a nuclear protein there is variation in level of staining intensity between cells and with the use of different fixatives. Although no disease states have been definitively identified as having alterations in expression of any of the CAF-1 subunits, the p150 subunit has been shown to map to 21q22.2, a region strongly associated with the major feature of Downs Syndrome.

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. Negative for mouse and rat.

Application/Dilutions:

Immunofluorescence:	2.5 ug/ml
Immunoprecipitation:	2.5 ug/sample
Western blot:	2.5 ug/ml

Source: Mice were immunized with human CAF-1 p130 subunit protein and fusing the splenocytes with P3-X63-Ag8-653 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.

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