



Dedicated to Studies of Topoisomerase Enzymes

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Immunoprecipitation with Topo I Monoclonal Antibody

1. Prepare nuclear protein from HeLa cells (800ug ~ 1mg).
2. Dilute the nuclear protein to approximately 1mg/ml total cell protein with PBS to reduce salt concentration in the buffer.
3. Add the 2ug of the Topo I monoclonal antibody to 1ml of nuclear extract.
4. Gently mix the nuclear extract/antibody mixture for either 2 hours or overnight at 4C on a rocker.
5. Capture the immunocomplex by adding 50ul of protein G sepharose bead slurry (50%) and gently rock for 2 hours.
6. Collect the sepharose beads by pulse centrifugation (5 seconds in the microcentrifuge at 14,000 rpm). Discard the supernatant fraction and wash the beads 3 times with 1ml of ice-cold PBS.
7. Resuspend the beads in 30ul of 2 X SDS loading buffer and mix gently.
8. The sepharose beads are boiled for 5 minutes to dissociate the immunocomplexes from the beads. The beads are collected by centrifugation and SDS-PAGE is performed with the supernatant fraction.