

Article

An Enzyme-Linked Immunosorbent Assay for the Detection of Mitochondrial DNA–Protein Cross-Links from Mammalian Cells

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Supplementary Materials

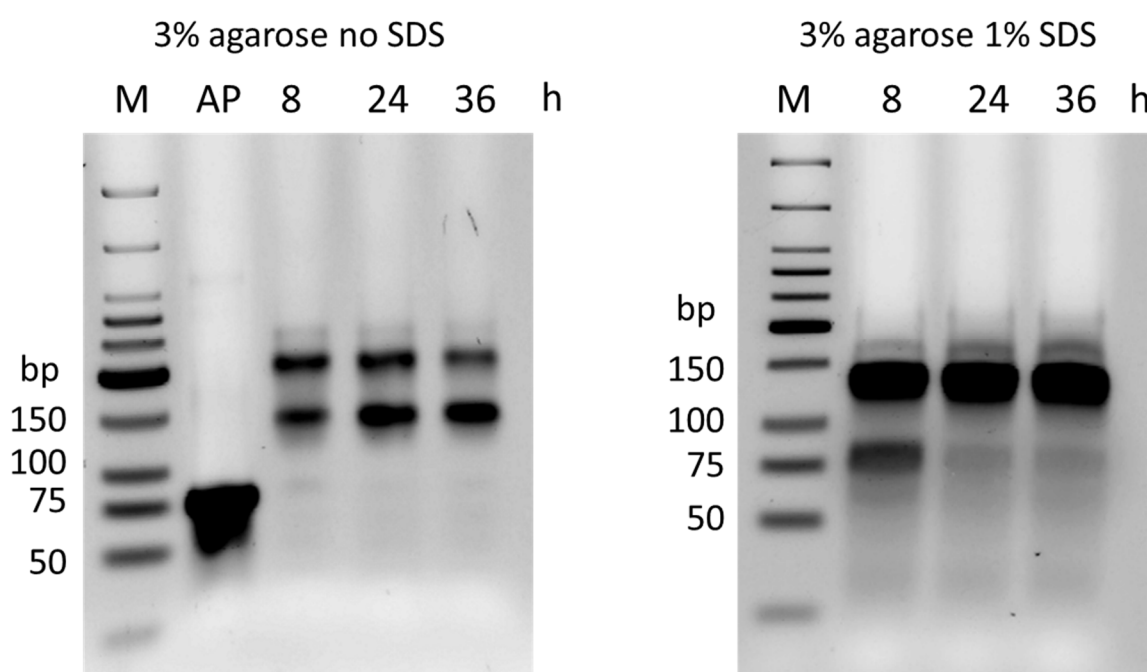


Figure S1. Cross-linking reactions between TFAM and 80bp AP-DNA monitored by agarose gel. Left panel is an agarose gel electrophoresis performed without SDS. The right panel is an agarose gel electrophoresis performed in the presence of 1% SDS. M, DNA molecular weight ladder (New England Biolabs, cat No. B7025); AP, 80bp AP-DNA substrate; reaction times, 8, 24, 36 hours.

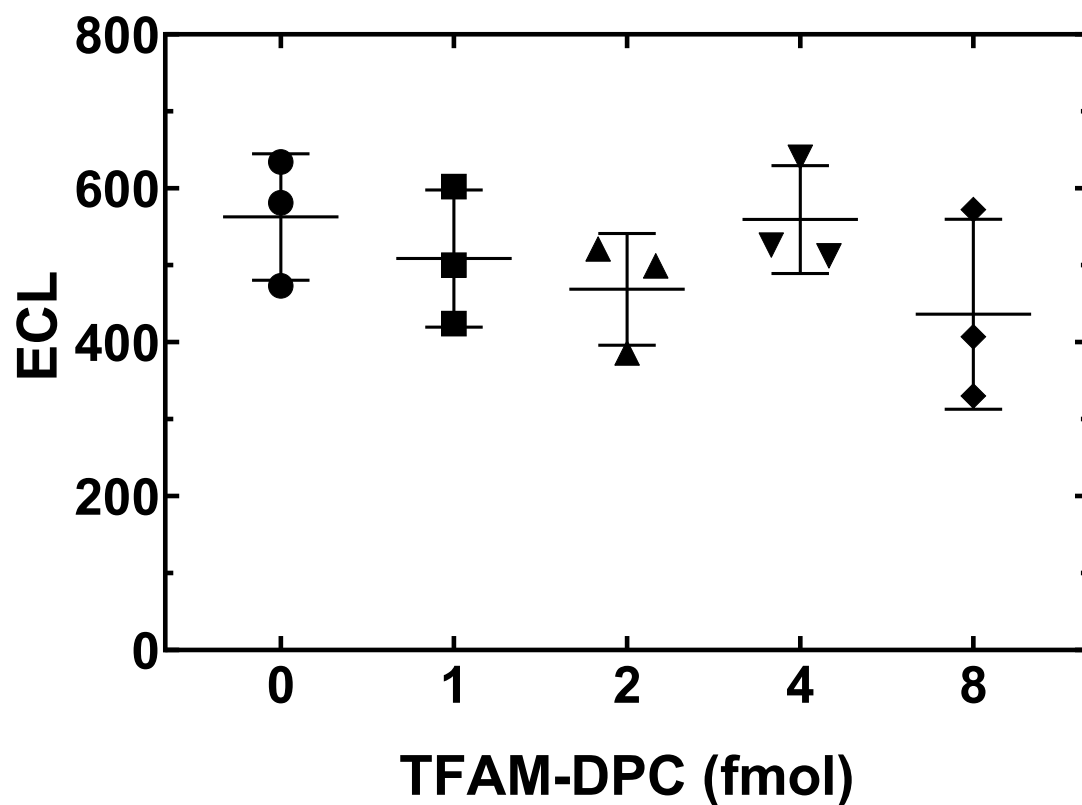


Figure S2. The enhanced chemiluminescent signals obtained from a microplate with an untreated polystyrene surface when different amount of TFAM-DPCs were coated onto the plate. .

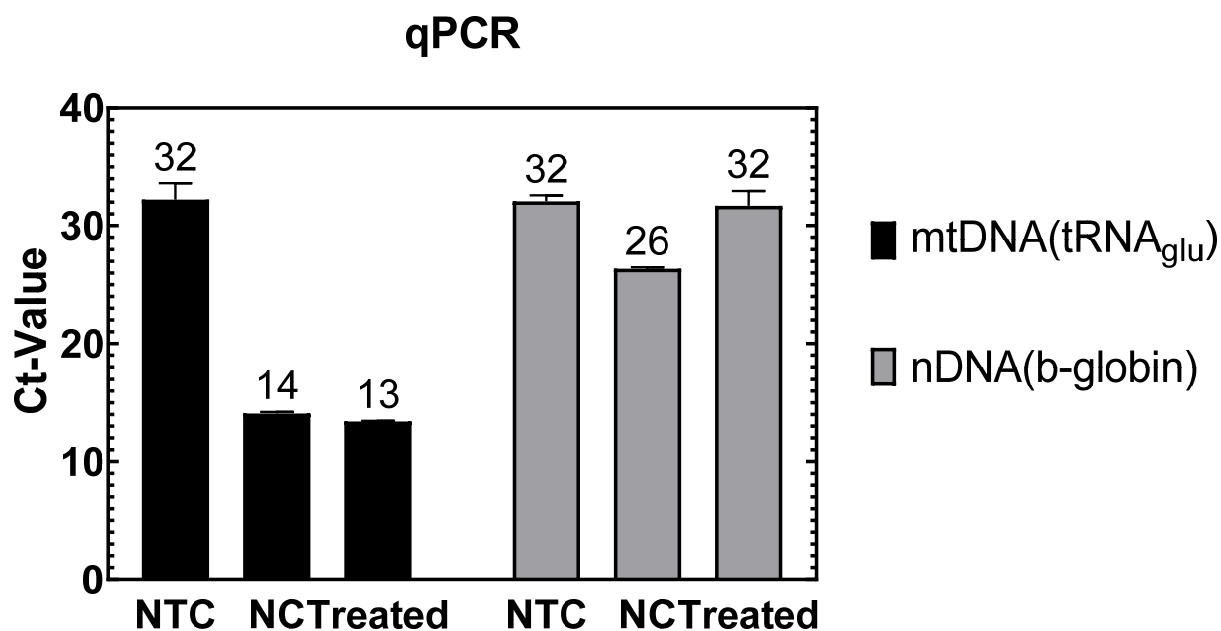


Figure S3. Ct-values from turbonuclease treated mitochondria (Treated) or untreated mitochondria (NC) indicating the removal of nuclear DNA while mitochondrial DNA remained intact. NTC, non-template control.

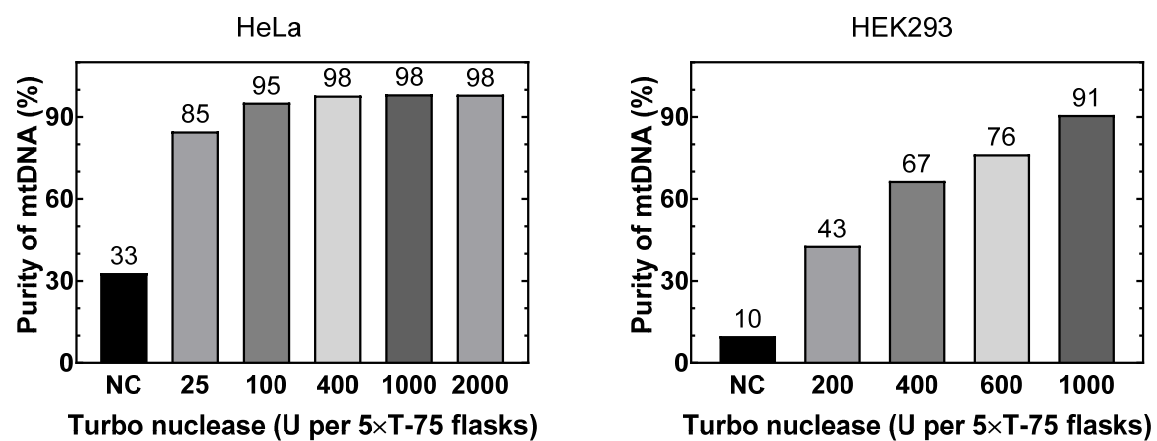


Figure S4. Evaluation of mtDNA purity (based on qPCR data) under different amounts of turbonuclease with mitochondria from HeLa cells and HEK293 cells.