Supporting Information

Distinct structural alterations in PCNA block DNA mismatch repair

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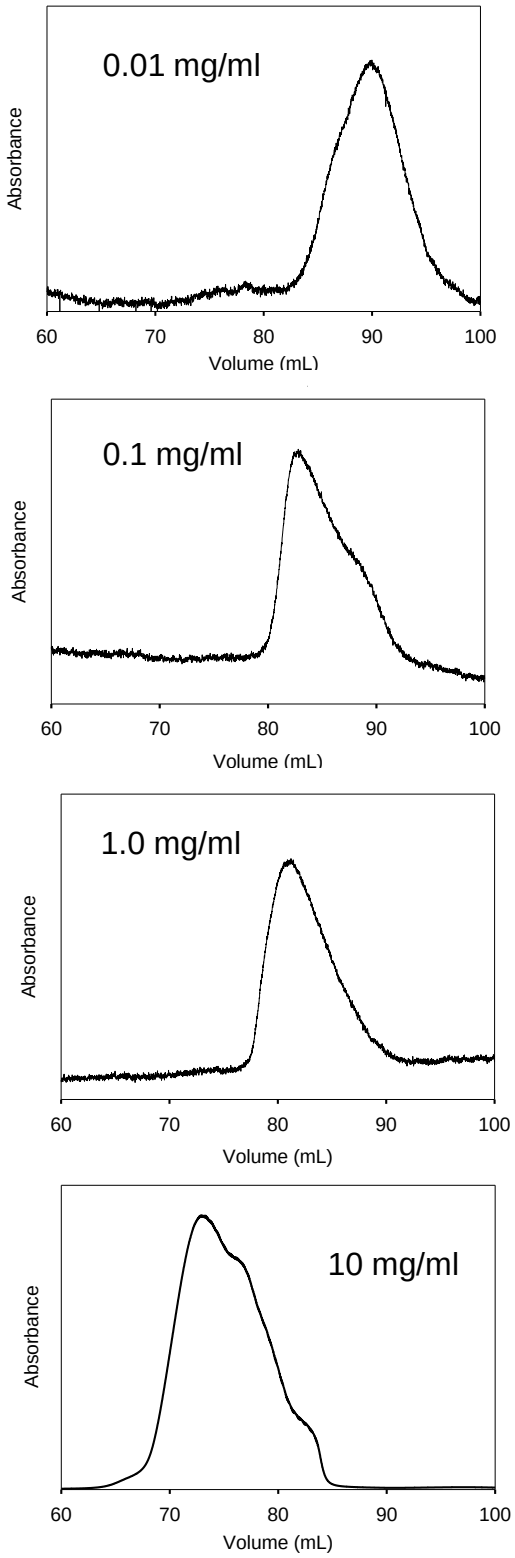
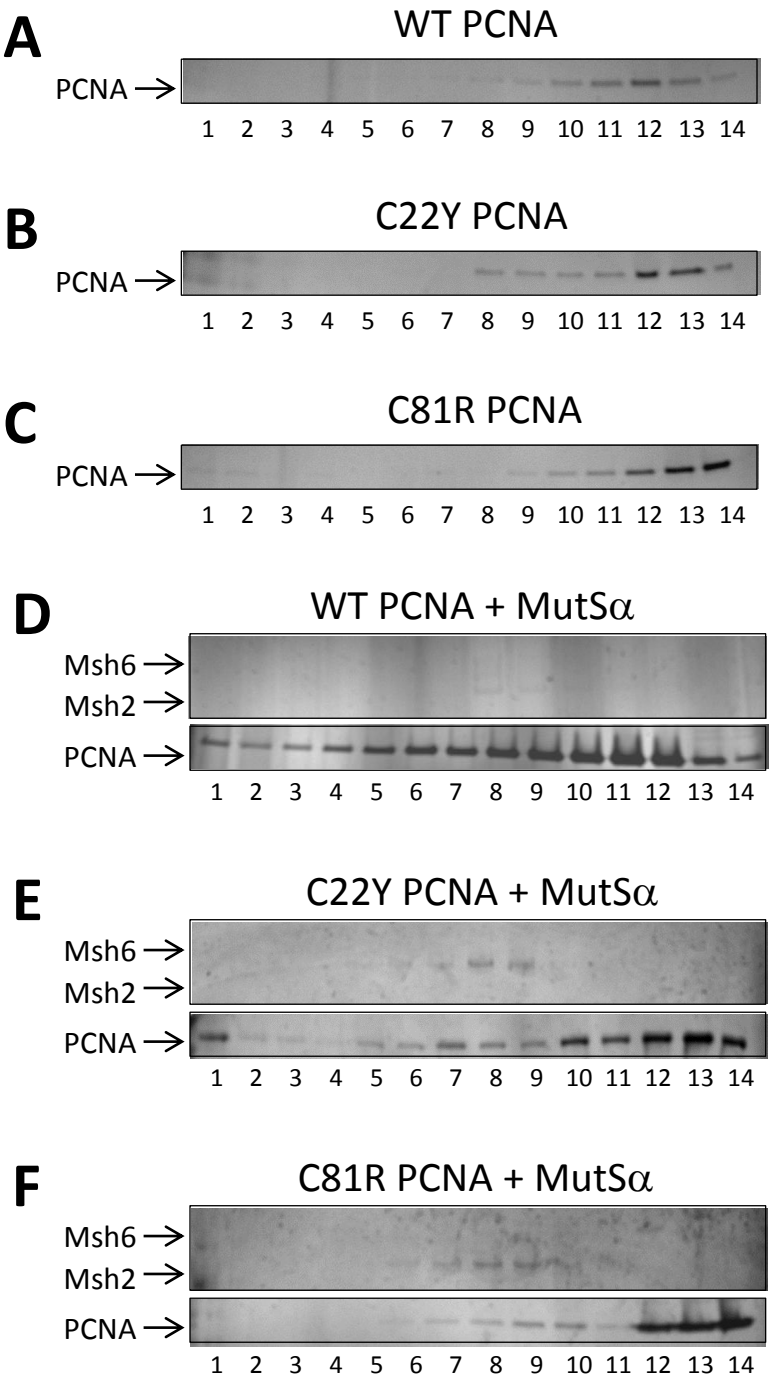
Figure S1. Additional analysis of the C81R mutant PCNA protein by size exclusion chromatography. The elution profile of a size exclusion chromatography column in which solutions of the C81R mutant PCNA protein (0.01, 0.1, 1.0, and 10 mg/ml) were run are shown.

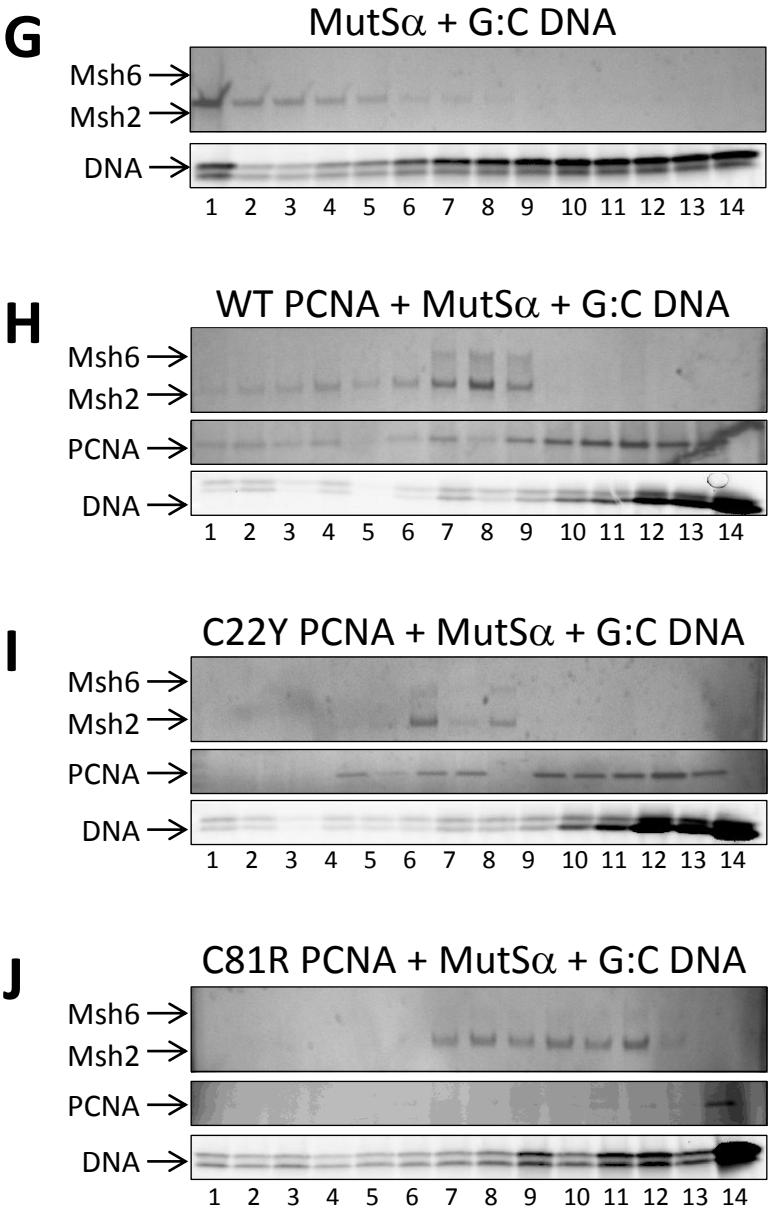
Figure S2. Additional sedimentation analysis of the interactions of the PCNA proteins with MutSα and DNA. Fractions of a glycerol gradient (15-30%) were analyzed by denaturing polyacrylamide gradient gel electrophoresis (4-15%). The fractions ranged from 1 (the bottom of the gradient) to 14 (the top of the gradient). The DNA substrate was visualized by Cy3 fluorescence, and the proteins were visualized by silver staining. The gradients contained (**A**) the wild-type PCNA protein alone, (**B**) the C22Y mutant PCNA protein alone, (**C**) the C81R mutant PCNA protein alone, (**D**) MutSα with the wild-type PCNA protein, (**E**) MutSα with the C22Y mutant PCNA protein, (**F**) MutSα with the C81R mutant PCNA protein, (**G**) MutSα with homoduplex DNA, (**H**) MutSα and homoduplex DNA in the presence of the wild-type PCNA protein, (**I**) MutSα and homoduplex DNA in the presence of the C22Y mutant PCNA protein, and (**J**) MutSα and homoduplex DNA in the presence of the C81R mutant PCNA protein.



Dieckman et al. Figure S1



Dieckman et al. Figure S2 (Part 1)



Dieckman et al. Figure S2 (Part 2)