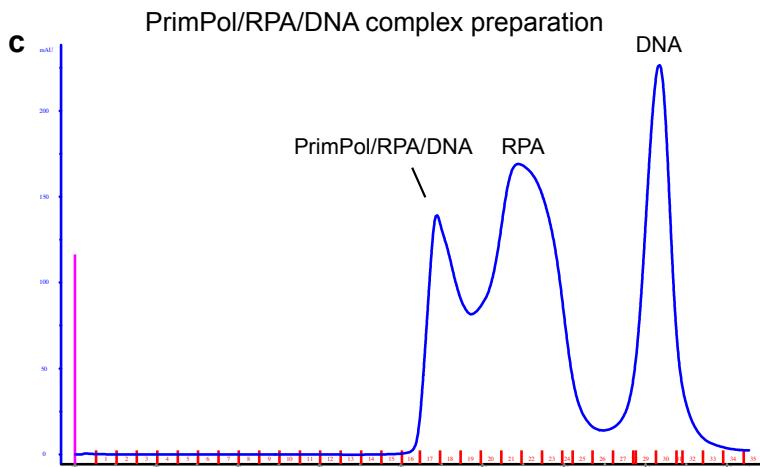
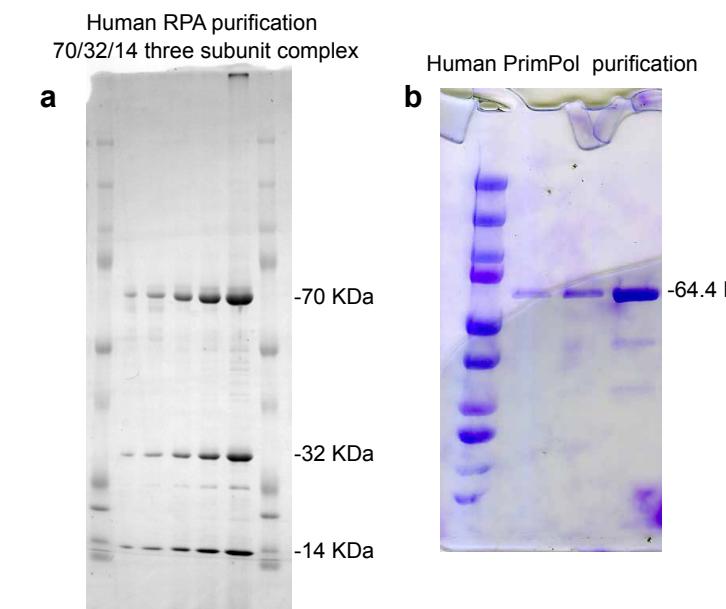


References Cited

1. O. Rechkoblit, Y.K. Gupta, R. Malik, K.R. Rajashankar, R.E. Johnson, L. Prakash, S. Prakash, and A.K. Aggarwal (2016). Structure and mechanism of human PrimPol, a DNA polymerase with primase activity. **Sci. Adv.** 2, e1601317
2. O. Rechkoblit, R.E. Johnson, Y. Gupta, L. Prakash, S. Prakash, and A.K. Aggarwal (2021). Structural basis of DNA synthesis opposite 8-oxoguanine by human PrimPol primase-polymerase. **Nature Comm.** 12, 4020
3. R. Jain, W.J. Rice, R. Malik, R.E. Johnson, L. Prakash, S. Prakash, I. Ubarretxena-Belandia, and A.K. Aggarwal (2019). Cryo-EM structure and dynamics of eukaryotic DNA polymerase δ holoenzyme. **Nat. Struct. Mol. Biol.** 26, 955-963
4. R. Malik, M. Kopylov, Y. Gomez-Llorente, R. Jain, R.E. Johnson, L. Prakash, S. Prakash, I. Ubarretxena-Belandia, and A.K. Aggarwal (2020). Structure and mechanism of B-family DNA polymerase ζ specialized for translesion DNA synthesis. **Nat. Struct. Mol. Biol.** 27, 913-924
5. R. Malik, R.E. Johnson, L. Prakash, S. Prakash, I. Ubarretxena-Belandia, and A.K. Aggarwal (2022). Cryo-EM structure of translesion DNA synthesis polymerase ζ with a base pair mismatch. **Nature Comm.** 13, 1050

Figure 1



a. Human RPA three subunit complex (70/32/14 KDa) was expressed in yeast and purified by affinity, ion-exchange and gel-filtration chromatography. **b.** Full-length human PrimPol protein (64.4 KDa) was expressed in E.Coli BL21(DE3) RIL Codon plus cells and purified by Ni-NTA, ion exchange and gel-filtration chromatography. **c.** PrimPol and RPA proteins were incubated with DNA substrate at 4°C overnight and purified from unbound RPA and DNA on Increase200 gel-filtration column.