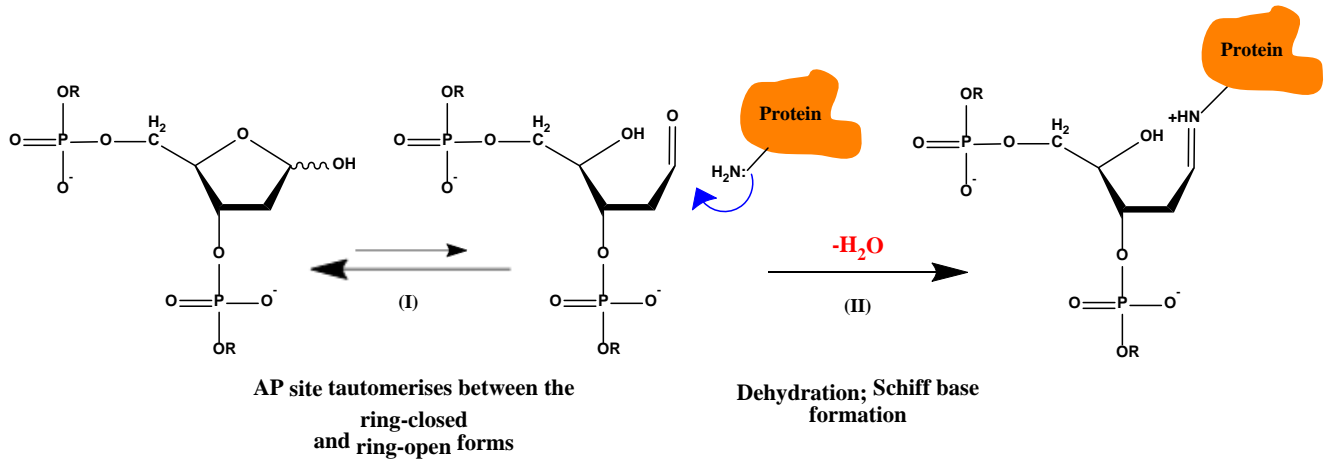
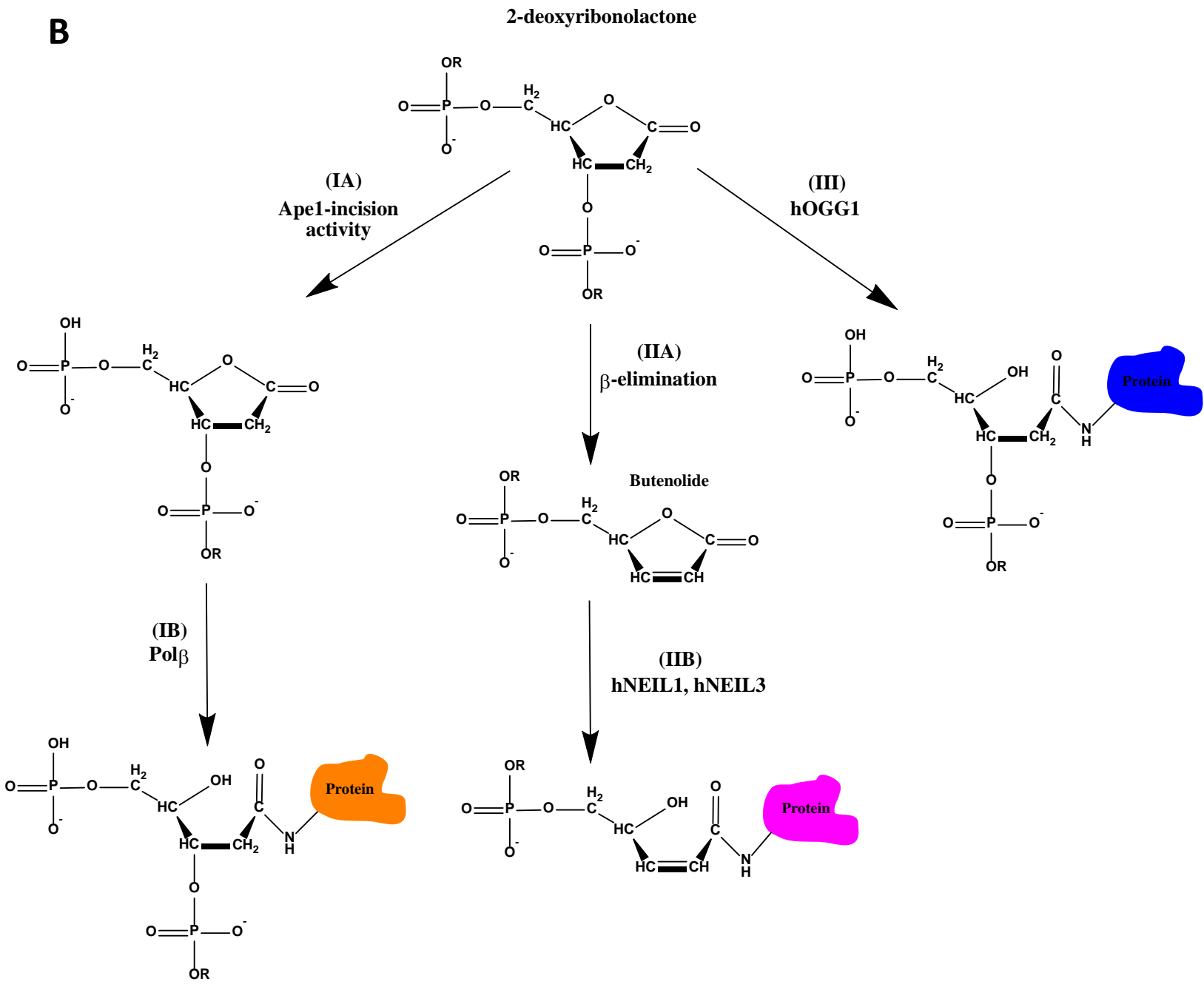


Supplemental Figure S1

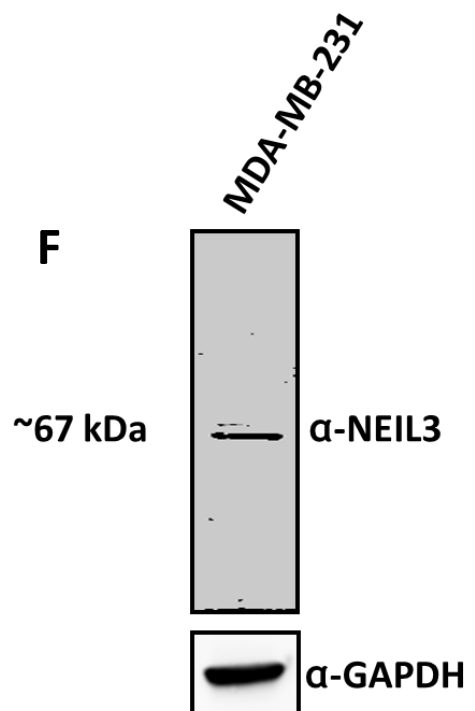
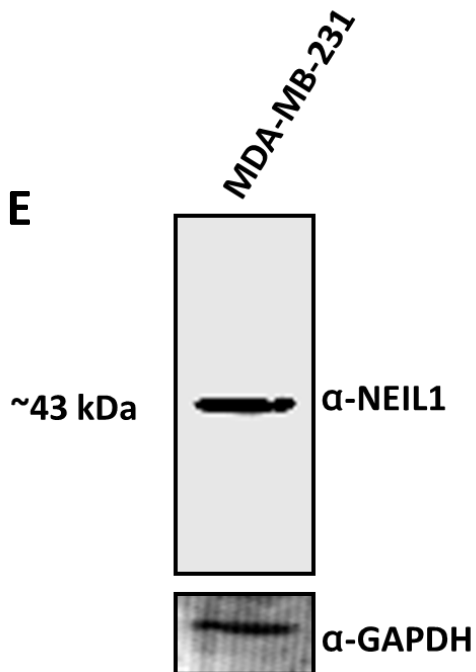
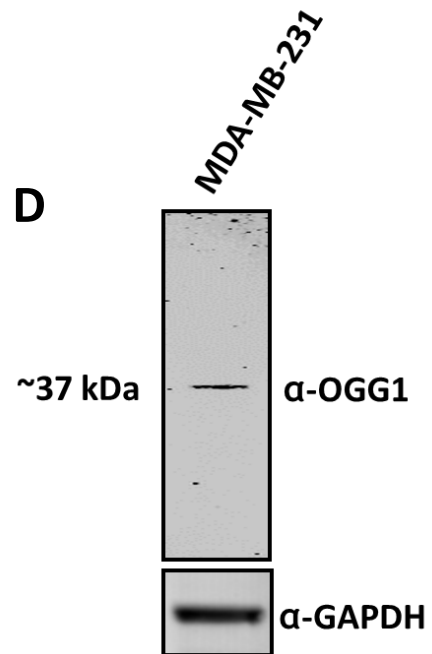
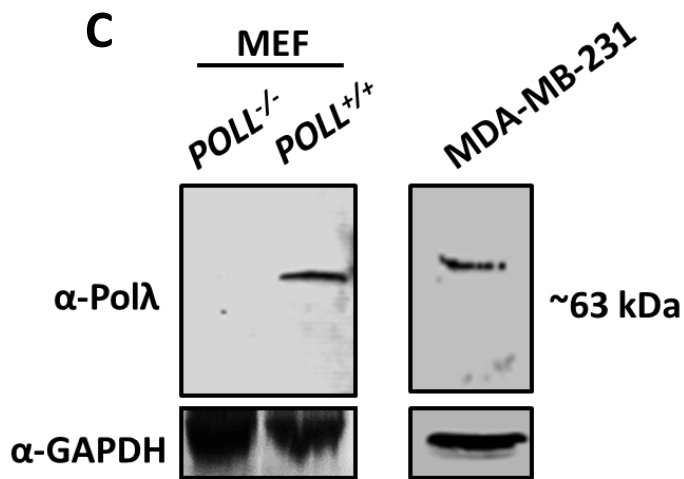
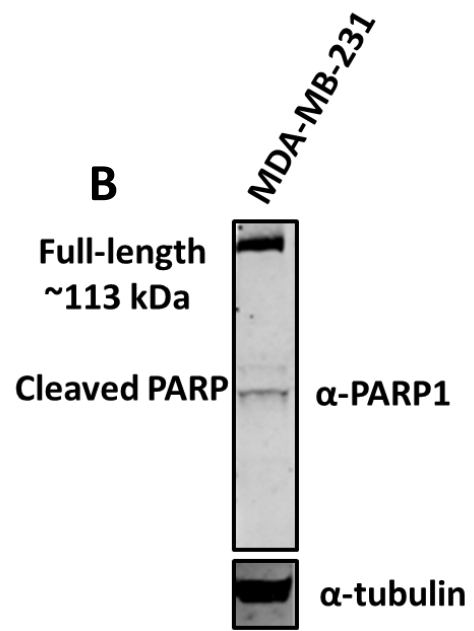
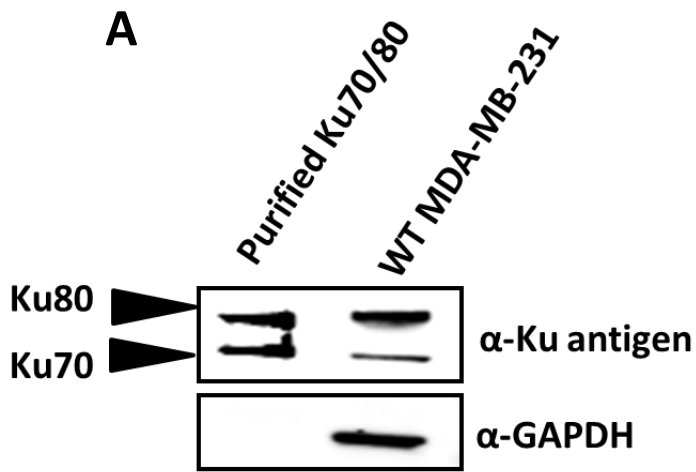
A



B

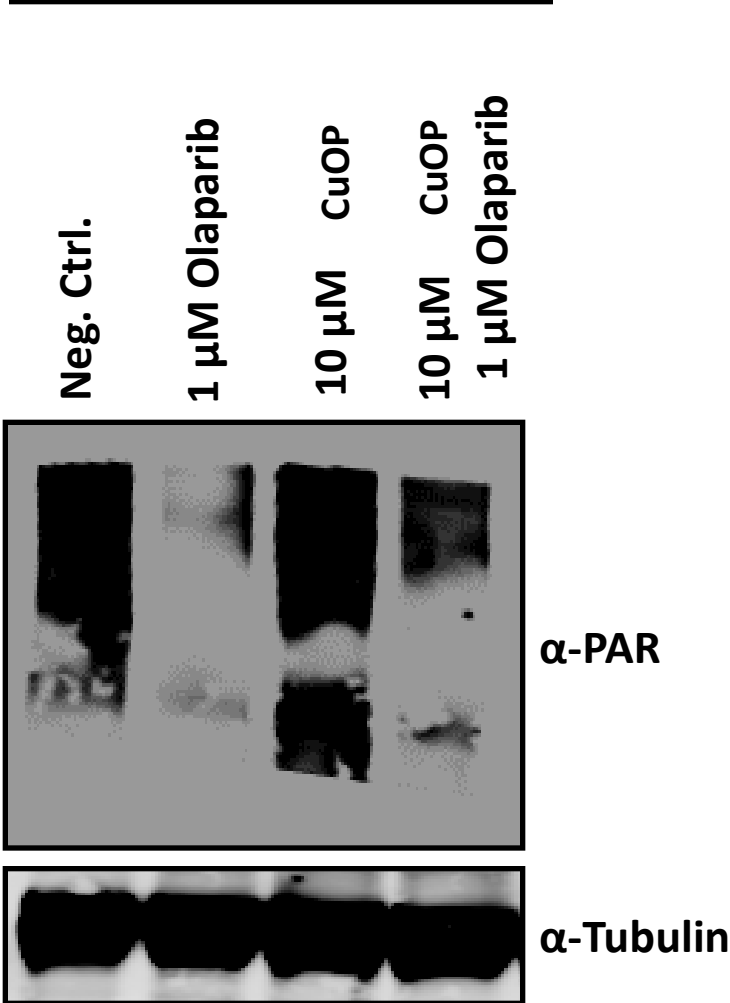


Supplemental Figure S2



Supplemental Figure S3

MDA-MB-231



Supplemental Figure Legends

Figure S1. Trapping of BER AP Lyases in DPC. A. Schematic showing reaction mechanism for trapping 5'-dRp/AP lyases in DPC with sodium borohydride (NaBH_4). **B.** Trapping of 5'-dRp/AP lyases by dL residues.

Figure S2. Confirmation of AP Lyase Expression. Whole cell extracts were prepared from MDA-MB-231 cells (**A.**, **B.**, **D.-F.**) or MEF cells (**C.**) as described in the material and methods section, then 50 μg of total protein were resolved by SDS-PAGE, and electroblotted onto PVDF membranes. Membranes were then blocked in 3% BSA, then probed using specific anti-sera raised against either **A.** the Ku 70/80 heterodimer, **B.** PARP1, **C.** Pol λ , **D.** OGG1, **E.** NEIL1, or **F.** NEIL3.

Figure S3. PARylation in MDA-MB-231 Cells Following Olaparib Treatment with or without CuOP. Cells were treated with 1 μM olaparib in the presence or absence 10 μM CuOP for 2 h, then whole cell extracts were prepared as described in the materials and methods section. For immunoblot analysis of PARylation, a total of 100 μg of protein were resolved by SDS-PAGE, electroblotted onto PVDF membranes, then probed with anti-serum against PAR (1:500).