Figure S4  Spd1 protects cells from division and mutation during dNTP imbalance (refer to Figure 7). A. On YES medium, spd1Δ cells withstand high doses of EdU and BrdU. DMSO is a vehicle control for EdU. Note that wild-type (wt) hsv-tkʰ hENT⁺ cells were also resistant to 50 µM thymidine on rich media. B. Strains (FY 2317, 3454, 6427, 5030, 5031, 5150, 5149, 5148) were streaked onto supplemented EMM with thymidine, BrdU or EdU to assess growth on plates. spd1Δ hsv-tkʰ hENT⁺ cells formed some large colonies, but also a background of small colonies, also seen for cds1Δ hsv-tkʰ hENT⁺. C. Immunofluorescence of spd1Δ hsv-tkʰ hENT⁺ cells, after 2h BrdU treatment for nuclei (DAPI), BrdU incorporation, phospho-histone H2A (p-H2A), and merged BrdU/p-H2A. Scale 10 µm. D. Addition of 2 mM thymidine over prolonged periods in non-incorporating wild-type (wt), wt and spd1Δ hsv-tkʰ hENT⁺ cells (Inc). The 1C and 2C DNA content peaks are indicated; G1 arrest causes a shift toward the 1C peak.