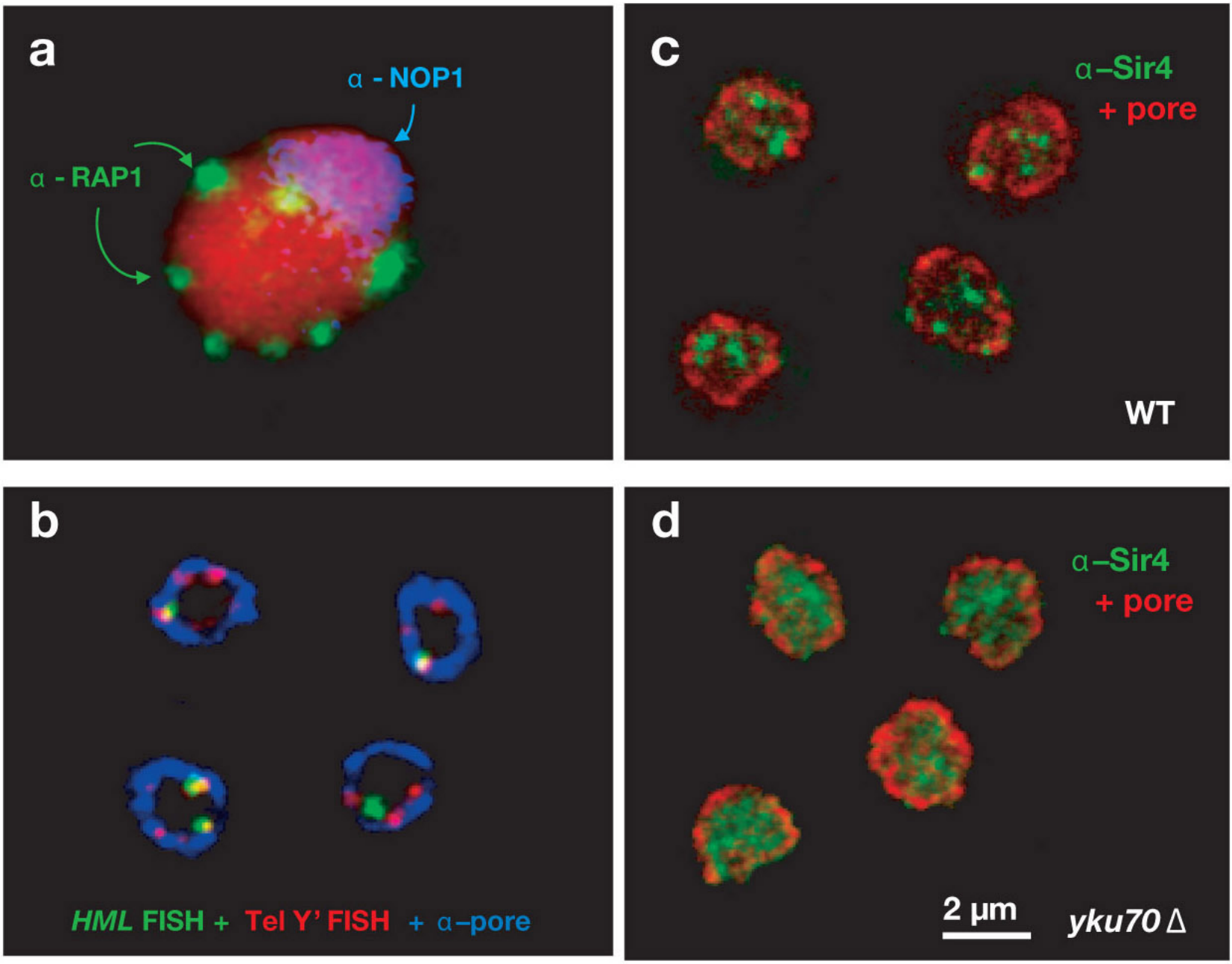

Figure 9. SIR Proteins and Rap1 Are Found in Foci at the Nuclear Periphery

In panel *a*, Rap1 (*green*) identifies 7 clusters representing all 64 telomeres in this diploid cell. They are either perinuclear or adjacent to the nucleolus (*blue*, anti-Nop1). DNA is in red. In panel *b*, telomeric DNA (*red*) is identified by fluorescent in situ hybridization (FISH), and *HML* is visualized in green. The two colocalize in about 70% of the cases, and both are adjacent to the nuclear envelope (*blue)* (Heun et al. 2001). Panel *c* shows the focal distribution of Sir4 (*green*) adjacent to the nuclear envelope (Mab414, *red*). This pattern is lost in a yKu70 deletion strain, coincident with the loss of telomeric silencing (Laroche et al. 1998).