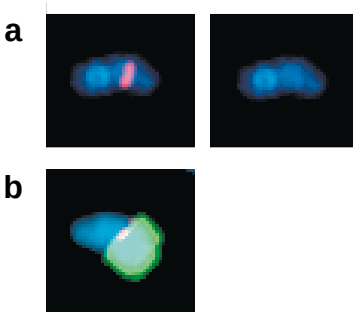
Supplementary Figure 3



Chromosomal FISH (fluorescence *in situ* hybridization) analysis of selected heterochromatic landmarks. **a**, left panel: Hybridization of a *DYZ19* BAC (red; BAC RP11-1325K03; GenBank accession AC079261) to a DAPI (blue)-stained metaphase Y chromosome. Right panel: DAPI staining alone, revealing slight diminution of DAPI staining ("grey band") at site of *DYZ19* hybridization. **b**, Co-hybridization of two BACs to a DAPI (blue)-stained metaphase Y chromosome. The first BAC (red; RP11-1136L22; GenBank AC073880) spans the Yq11 euchromatin/Yq12 heterochromatin boundary; its heterochromatic portion is composed exclusively of *DYZ18* sequences. The second BAC (green; RP11-242E13; GenBank AC068123) is composed exclusively of *DYZ1* sequences. The observed yellow signal at the proximal edge of the heterochromatic region results from the superposition of red and green signals.