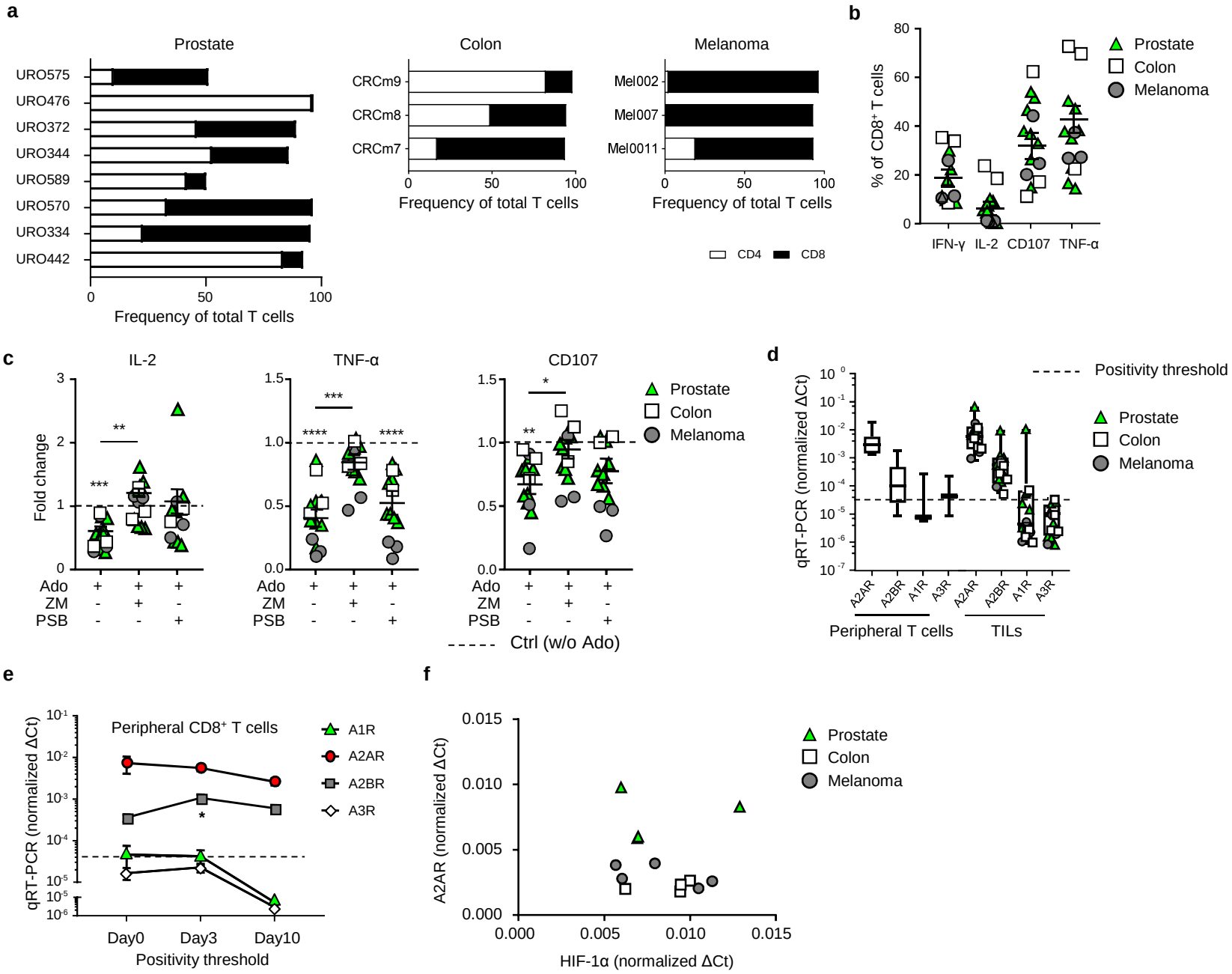Supplementary figure 7