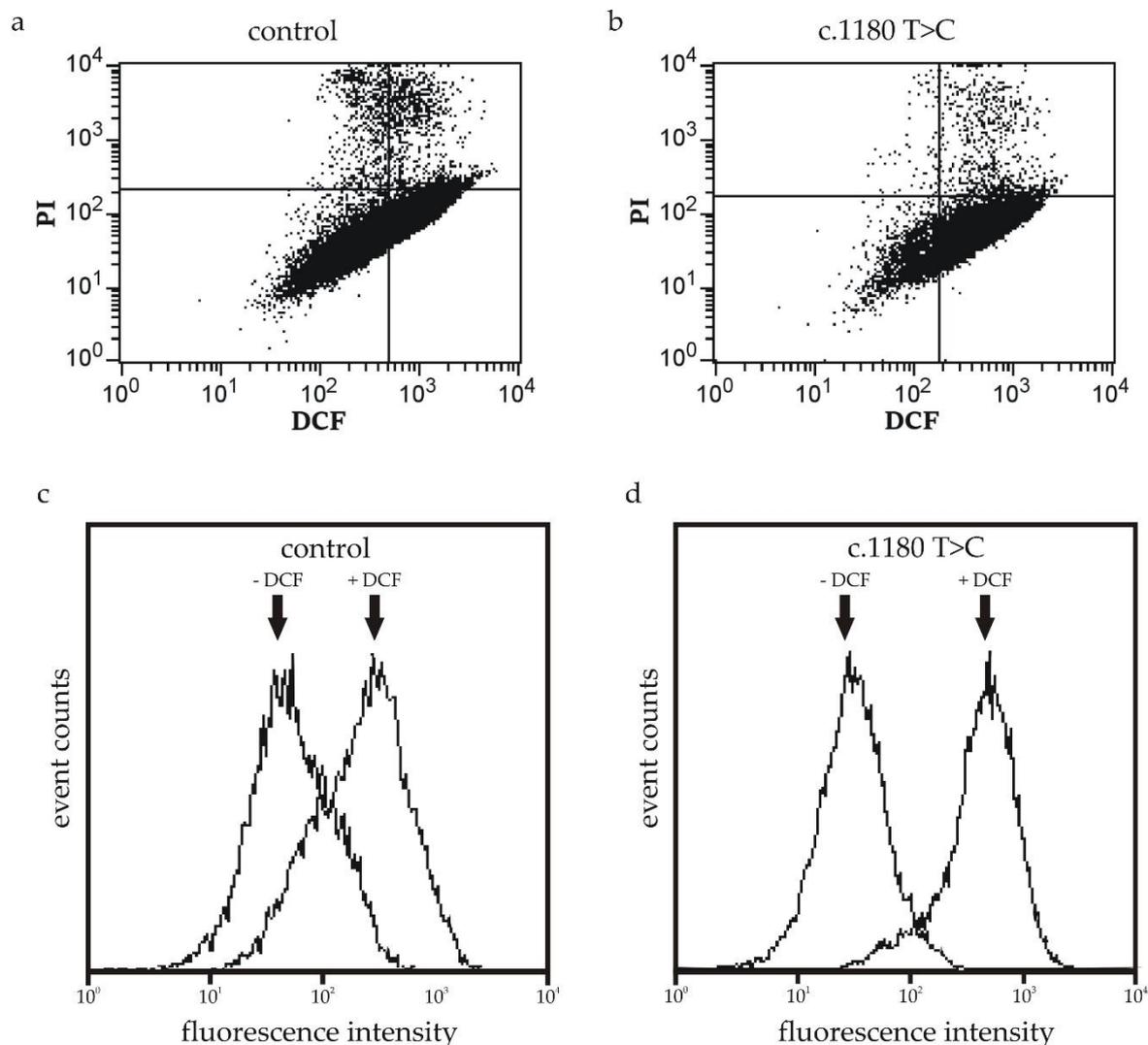




1 **Supplementary Figure 1**

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4 **Supplementary Figure 1: Example of FACS analysis of ROS level by DCF fluorescence.**

5 (a) Dot plot of control cells and (b) of mutated cells simultaneously stained with propidium iodide  
6 (PI) and DCF. Lower left quadrant contains double negative cells. Lower right quadrant displays  
7 DCF positive cells and PI negative cells. This population reflects cells suffering from oxidative stress  
8 (OS). Upper left quadrant comprises PI positive cells and thus necrotic/apoptotic cells. Upper right  
9 quadrant involves PI and DCF positive cells. (c) Histogram of fluorescence distribution of control  
10 cells and (d) mutated cells. Cells not treated with DCF (-DCF) were used as negative control to set  
11 the cut off for the fluorescence analysis of cells treated with DCF (+DCF). For both examples one can  
12 observe the right shift of the DCF fluorescence, indicating cells suffering from OS. Noticeably, the  
13 shift to a higher fluorescence intensity is more pronounced in the NPC1-deficient cell line:  
14



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