SUPPLEMENTARY APPENDIX

Ibrutinib interferes with the cell-mediated anti-tumor activities of therapeutic CD20 antibodies: implications for combination therapy

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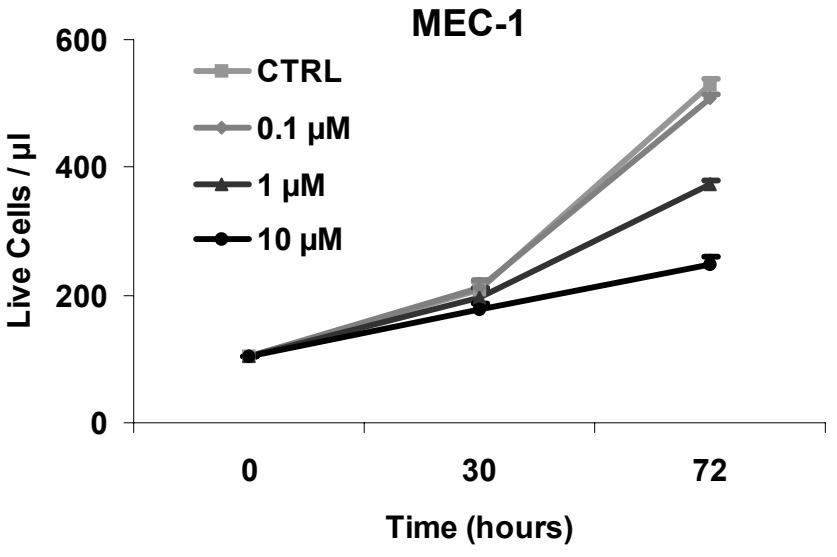
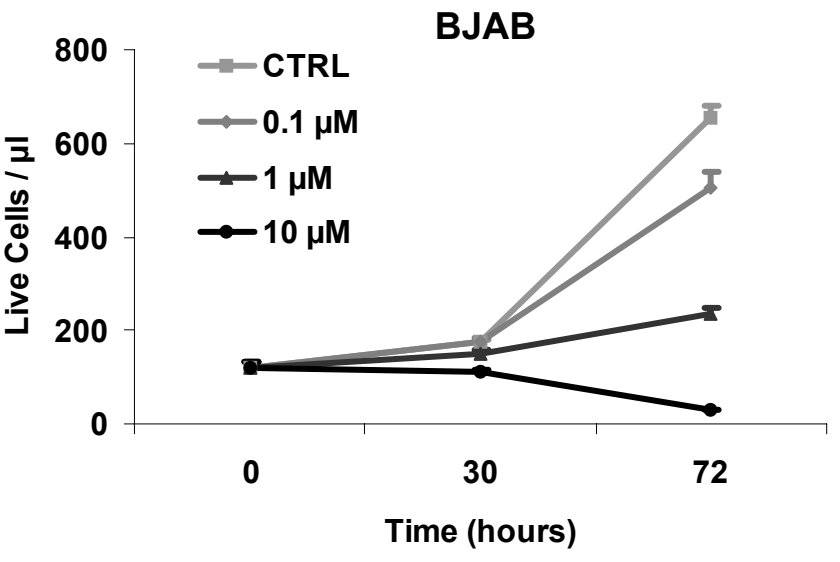
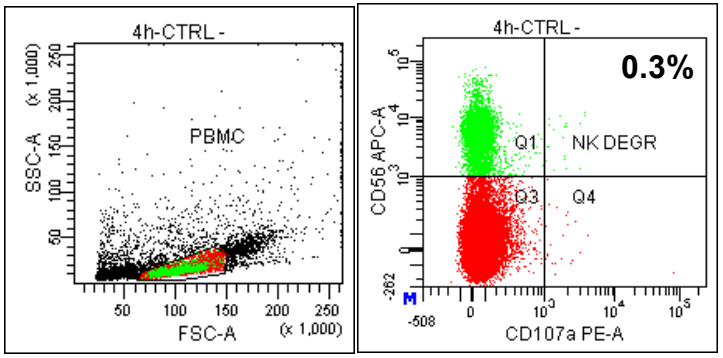
Supplementary Figure 1. Effect of ibrutinib alone on MEC-1 and BJAB. Cells were plated in presence or absence of 0.1 to 10 μM ibrutinib. Absolute numbers of live cells were measured at 30 and 72 hours by flow cytometry, using 7-AAD and calibration beads.

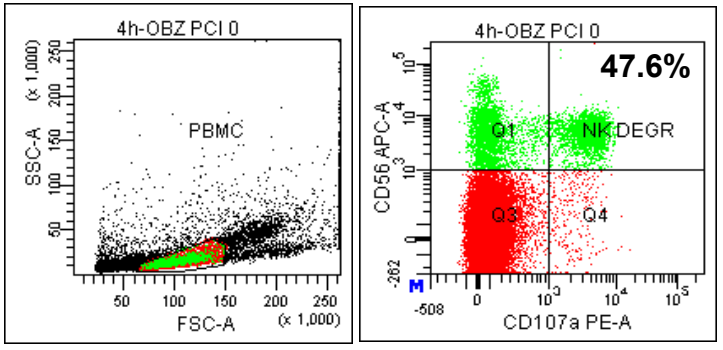




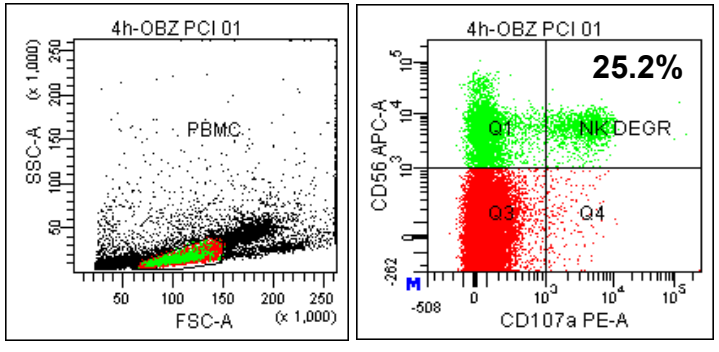
Supplementary Figure 2. Dot plot of degranulation of NK cells by flow cytometry. PBMC were untreated or treated for 1 hour with 0.1,1 or 10 μM ibrutinib followed by 4 hours incubation with CLL (CTRL) or CLL opsonised with OBZ. Percentages of $CD107a^{+}$ $CD56^{+}$ NK cells are shown in each panel



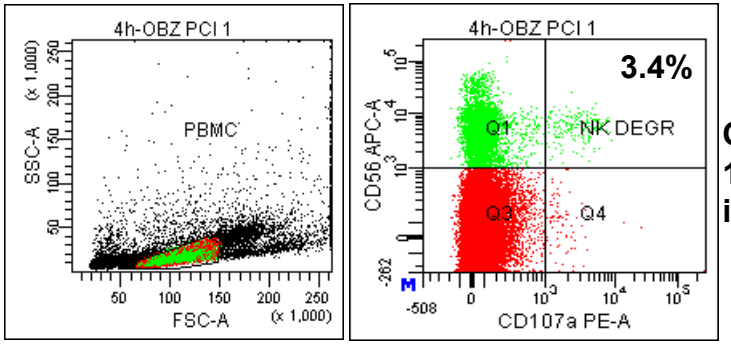
CTRL (NO MAB)



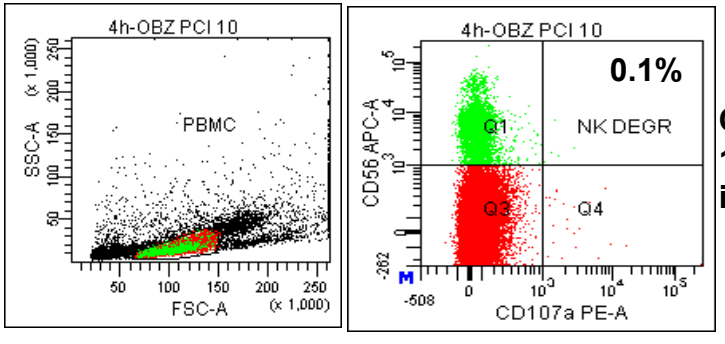
OBZ



OBZ + 0.1 μM ibrutinib



OBZ + 1 μM ibrutinib



OBZ + 10 μM ibrutinib

Supplementary Fig. 3. Results of ADCC assays of MEC-1 cell line with 10 μM ibrutinib (A,C) or 10 μM idelalisib (B,D) induced by OFA (A,B) or OBZ (C,D)