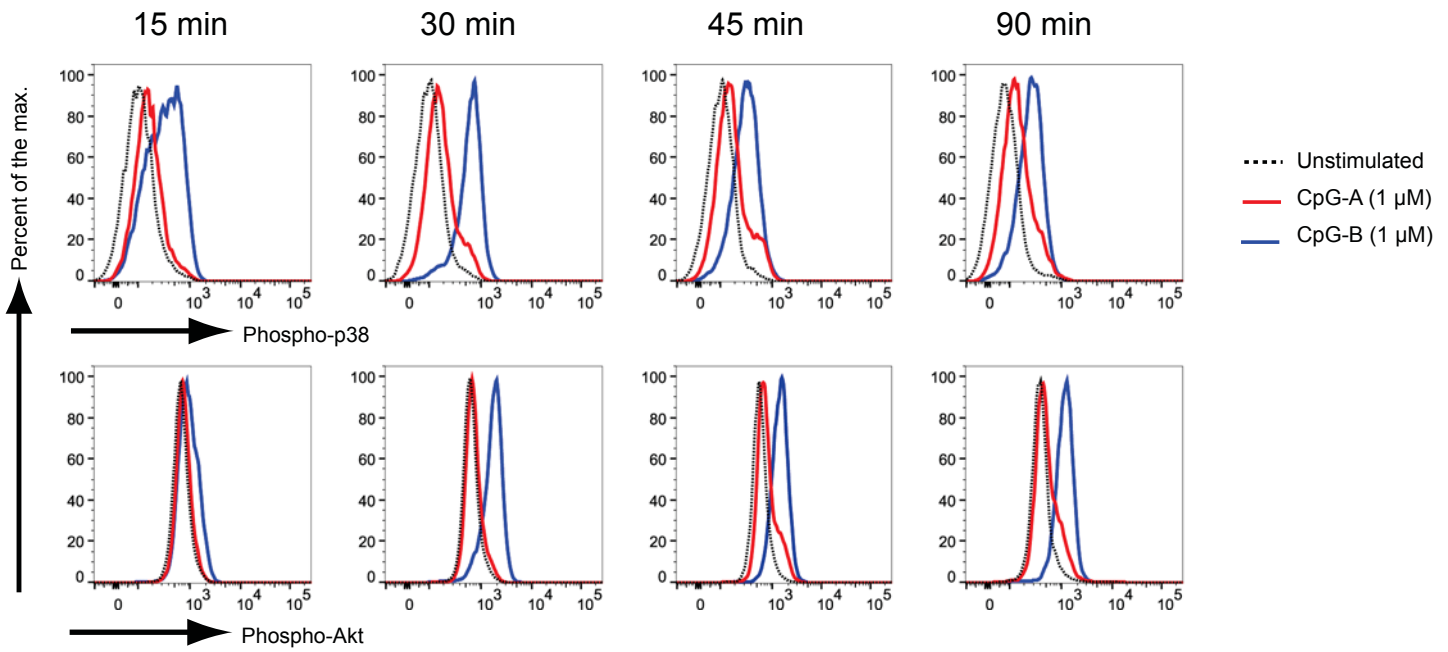
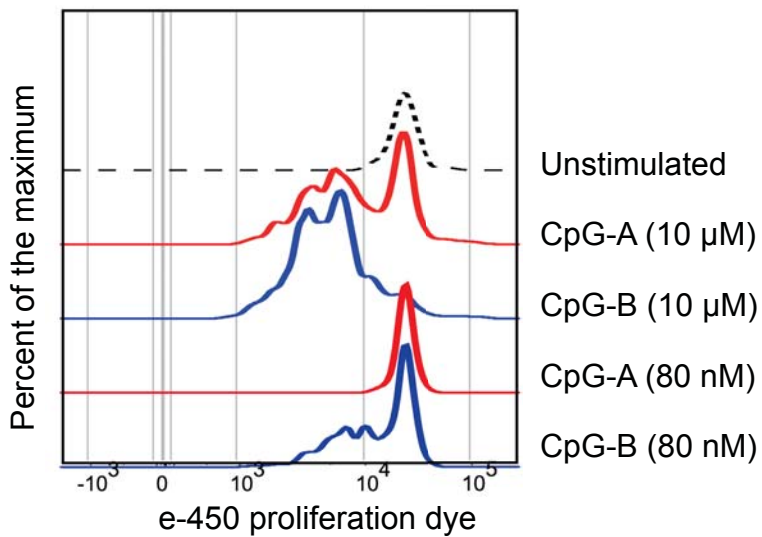


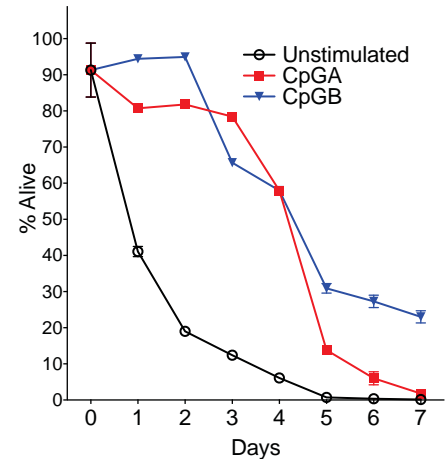
A)



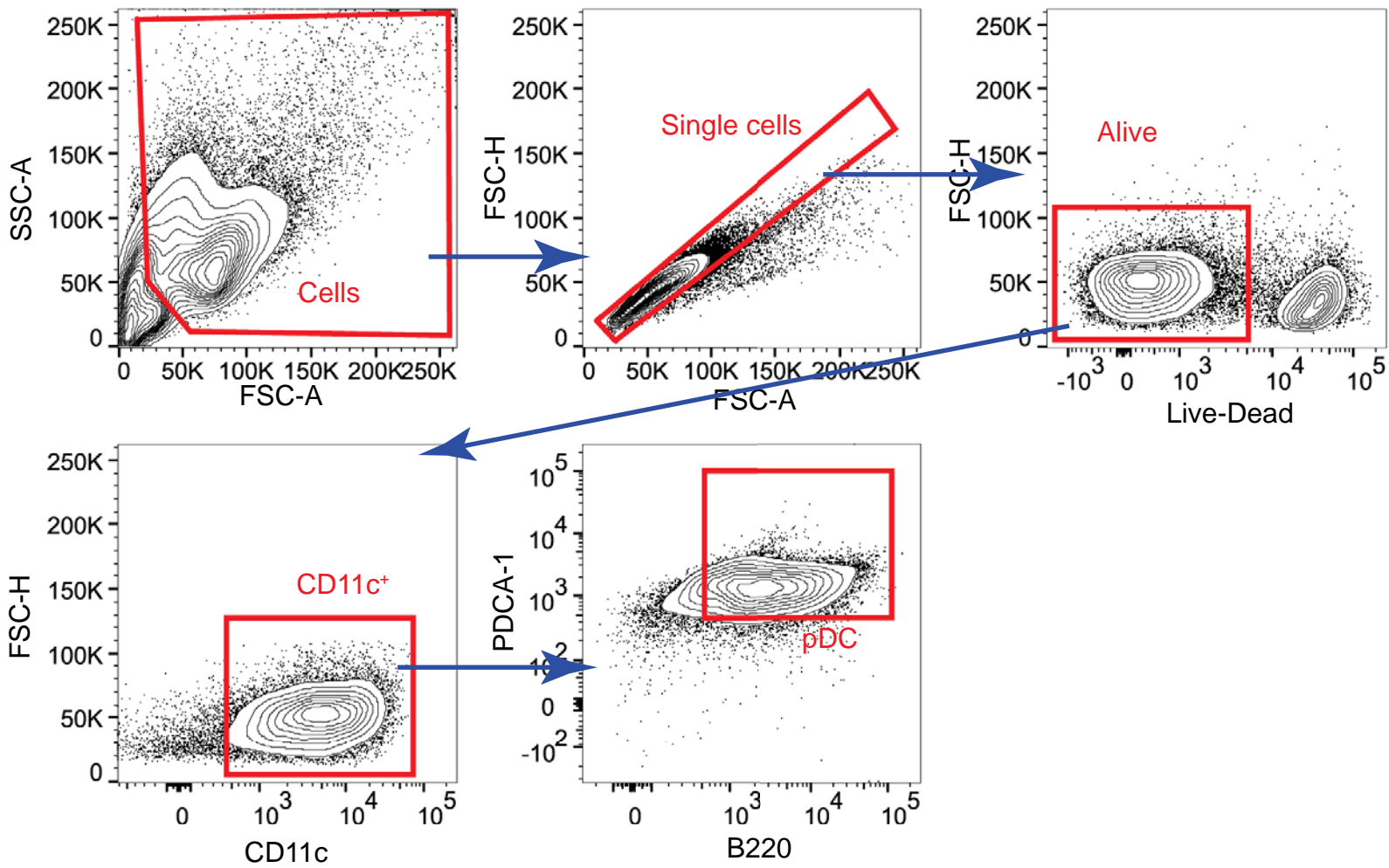
B)



C)



**Supplementary Figure 1) *In vitro* activation of B cells.** A) Representative histogram overlays showing the time dependent changes in the phosphorylation of p38 (top panel) and Akt (bottom panel) after stimulation of purified B cells as explained in Figure 1A. B) Representative histograms showing the proliferative activity of B cells 48 h after stimulation with two different concentrations of CpG-A or CpG-B as indicated in Figure 1C. C) Graph showing the change in the viability of purified B cells in 96 well flat bottom culture plate after being seeded at a density of  $1.5 \times 10^5$  cells/well and incubated in 250  $\mu$ l complete media either alone or supplemented with 2  $\mu$ M CpG. Data represents two independent experiments (n=4).



**Supplementary Figure 2)** Stepwise gating strategy showing the flow cytometry gating of the *in vitro* differentiated pDCs used in Figure 3.

<b>Antibody</b>	<b>Fluorochrome</b>	<b>Vendor</b>	<b>Catalog No</b>
Anti-mouse CD45R/B220	AF-700	Biolegend	103232
Anti-mouse CD45R/B220	AF-488	Biolegend	103225
Anti-mouse CD45R/B220	PE	Biolegend	103208
Anti-mouse CD45R/B220	BV-785	Biolegend	103246
Anti-mouse CD45R/B220	BV-605	Biolegend	103244
Anti-mouse CD45R/B220	BV-421	Biolegend	103240
Anti-mouse CD45R/B220	BV-510	Biolegend	103247
Anti-mouse CD19	BV-605	Biolegend	115540
Anti-mouse CD19	BV421	Biolegend	115538
Anti-mouse CD19	AF-647	Biolegend	115522
Anti-mouse CD11c	AF-647	Biolegend	117312
Anti-mouse PDCA-1	Pacific Blue	Biolegend	127108
Anti-mouse CD16/32	-	Biolegend	101302
Anti-mouse CD4	BV605	Biolegend	100548
Anti-mouse CD132 (common $\gamma$ chain)	PE	Biolegend	132305
Anti-mouse CD107a (LAMP-1)	PE	Biolegend	121611
Anti-mouse CD155 (PVR)	PE	Biolegend	132205
Anti-mouse CD268 (BAFF-R)	PE	Biolegend	134103
Anti-mouse CD274 (B7-H1, PD-L1)	PE	Biolegend	124307
Anti-mouse CD279 (PD-1)	PE	Biolegend	135205
Anti-mouse CD317 (BST2, PDCA-1)	PE	Biolegend	127103
Anti-mouse/human CD44	PE	Biolegend	103007
Anti-mouse CD49b (pan-NK cells)	PE	Biolegend	108907
Anti-mouse/rat CD81	PE	Biolegend	104905
Anti-mouse CD98 (4F2)	PE	Biolegend	128207
Anti-mouse GARP (LRRC32)	PE	Biolegend	142903
Anti-mouse LAP (TGF- $\beta$ 1)	PE	Biolegend	141403
Anti-mouse CD107b (Mac-3)	PE	Biolegend	108505
Anti-mouse Notch 2	PE	Biolegend	130707
Anti-mouse CD223 (LAG-3)	PE	Biolegend	125207
Anti-mouse CD25	PE	Biolegend	102007
Anti-human/mouse CD49f	PE	Biolegend	313611
Anti-mouse CD54	PE	Biolegend	116107
Anti-mouse CD80	PE	Biolegend	104707
Anti-mouse CD83	PE	Biolegend	121507
Anti-mouse CD86	PE	Biolegend	105007
Anti-mouse I-A/I-E	PE	Biolegend	107607
Anti-mouse Allergin-1	PE	Biolegend	141805
Anti-mouse CD135	PE	Biolegend	135305
Anti-mouse CD24	PE	Biolegend	101807
Anti-mouse CD36	PE	Biolegend	102605
Anti-mouse CD93 (AA4.1, early B lineage)	PE	Biolegend	136503
Anti-mouse CD62L	PE	Biolegend	104407
Anti-mouse CD66a (CEACAM1a)	PE	Biolegend	134505
Anti-mouse CD90.2	PE	Biolegend	105307
Anti-human/mouse integrin $\beta$ 7	PE	Biolegend	121005
Anti-mouse LPAM-1 (Integrin $\alpha$ 4 $\beta$ 7)	PE	Biolegend	120605
Anti-mouse PIR-A/B	PE	Biolegend	144103
Anti-mouse CD272 (BTLA)	PE	Biolegend	134803
Anti-mouse CD275 (B7-RP1, ICOSL, B7H2)	PE	Biolegend	107405
Anti-mouse CD30	PE	Biolegend	102306
Anti-mouse CD51	PE	Biolegend	104105
Anti-mouse CD45.2	AF-488	Biolegend	109816

**Supplemental Table 1:** Product details of the antibodies used in flow cytometry experiments are listed