

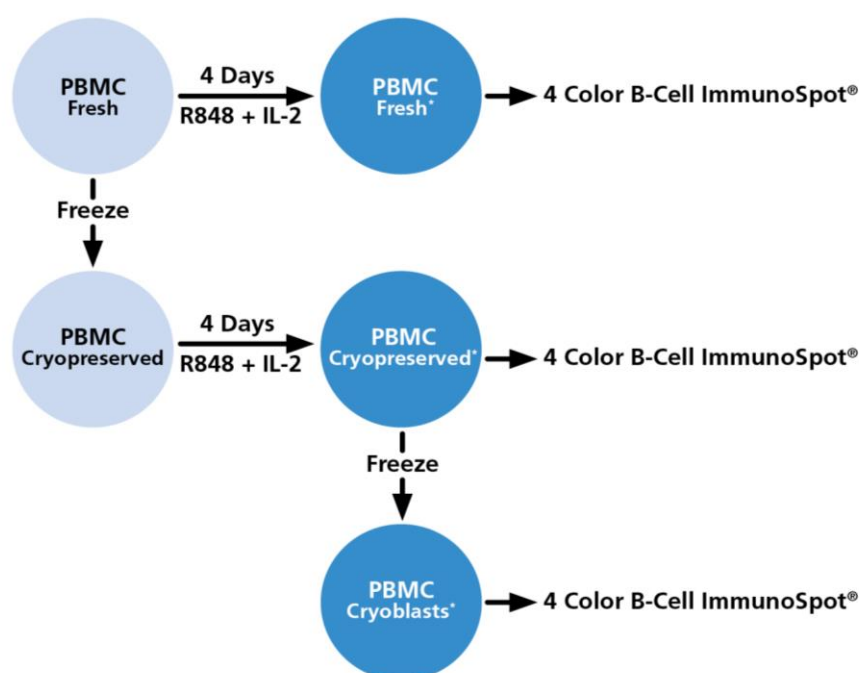
# B Cells and B Cell Blasts Withstand Cryopreservation While Retaining Their Functionality for Producing Antibody

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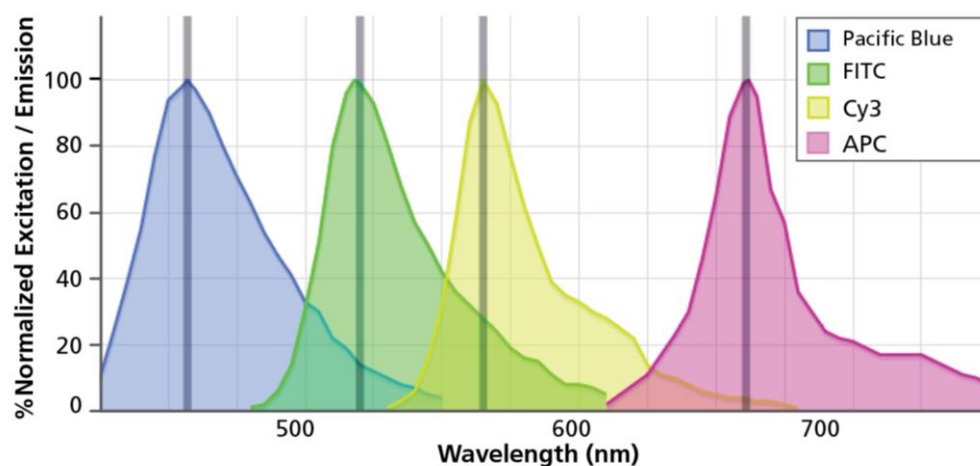
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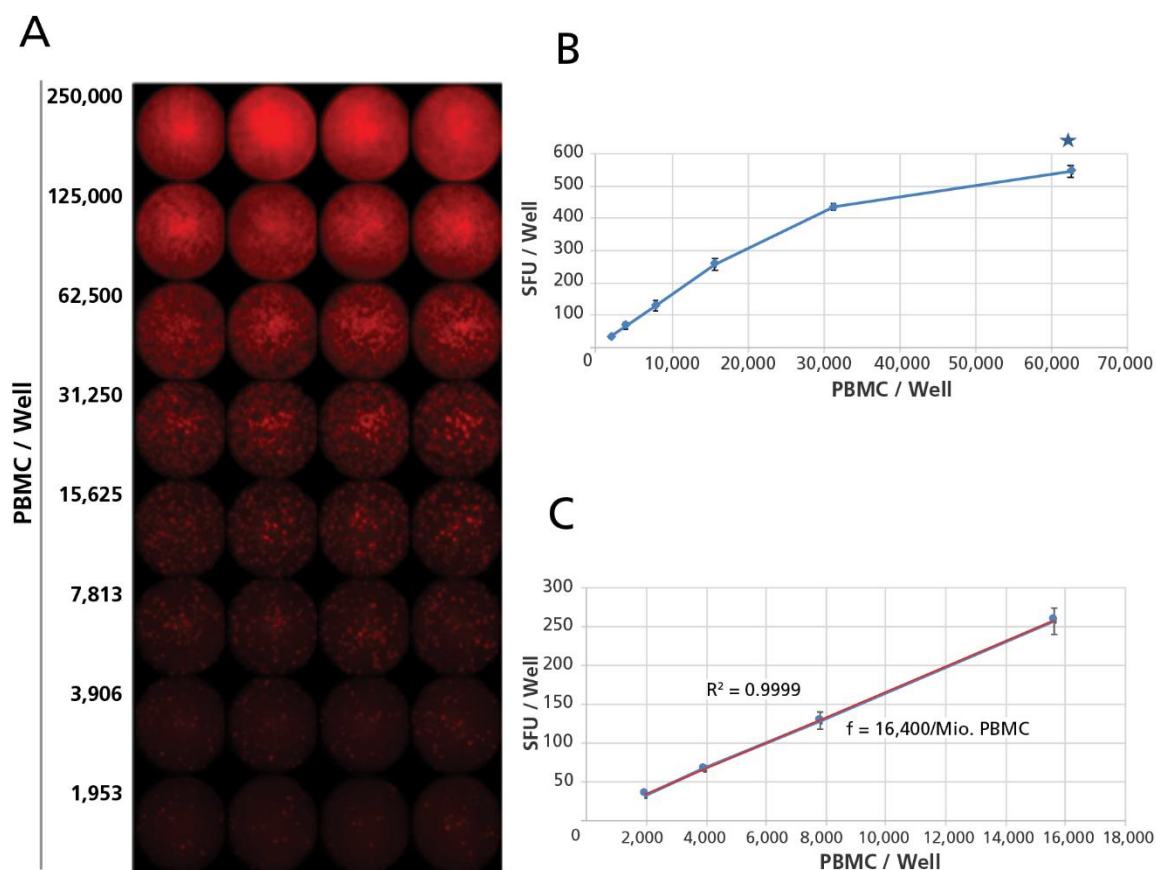
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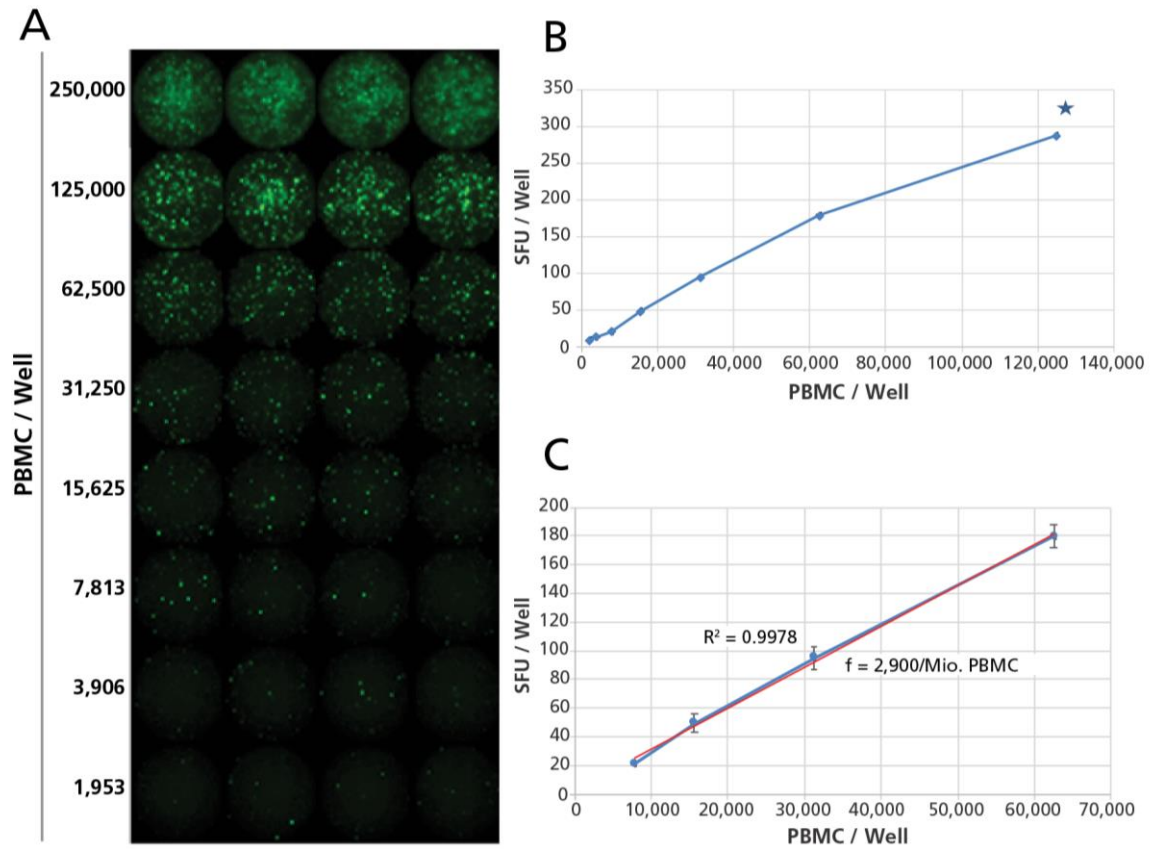
**Figure S1.** Comparing fresh and cryopreserved PBMC – specifying the treatment of the cells tested. Freshly isolated PBMC were polyclonally stimulated for 4 days and then seeded into a 4 color B cell ImmunoSpot® assay: “Fresh” PBMC. Upon receipt, a fraction of the fresh cells was cryopreserved, stored, thawed, and then polyclonally stimulated, now termed cryopreserved, or “Frozen” PBMC. A fraction of these “frozen” PBMC, containing B cell blasts, was re-frozen, stored, thawed and seeded without additional stimulation into ELISPOT assays as “Blasts”.



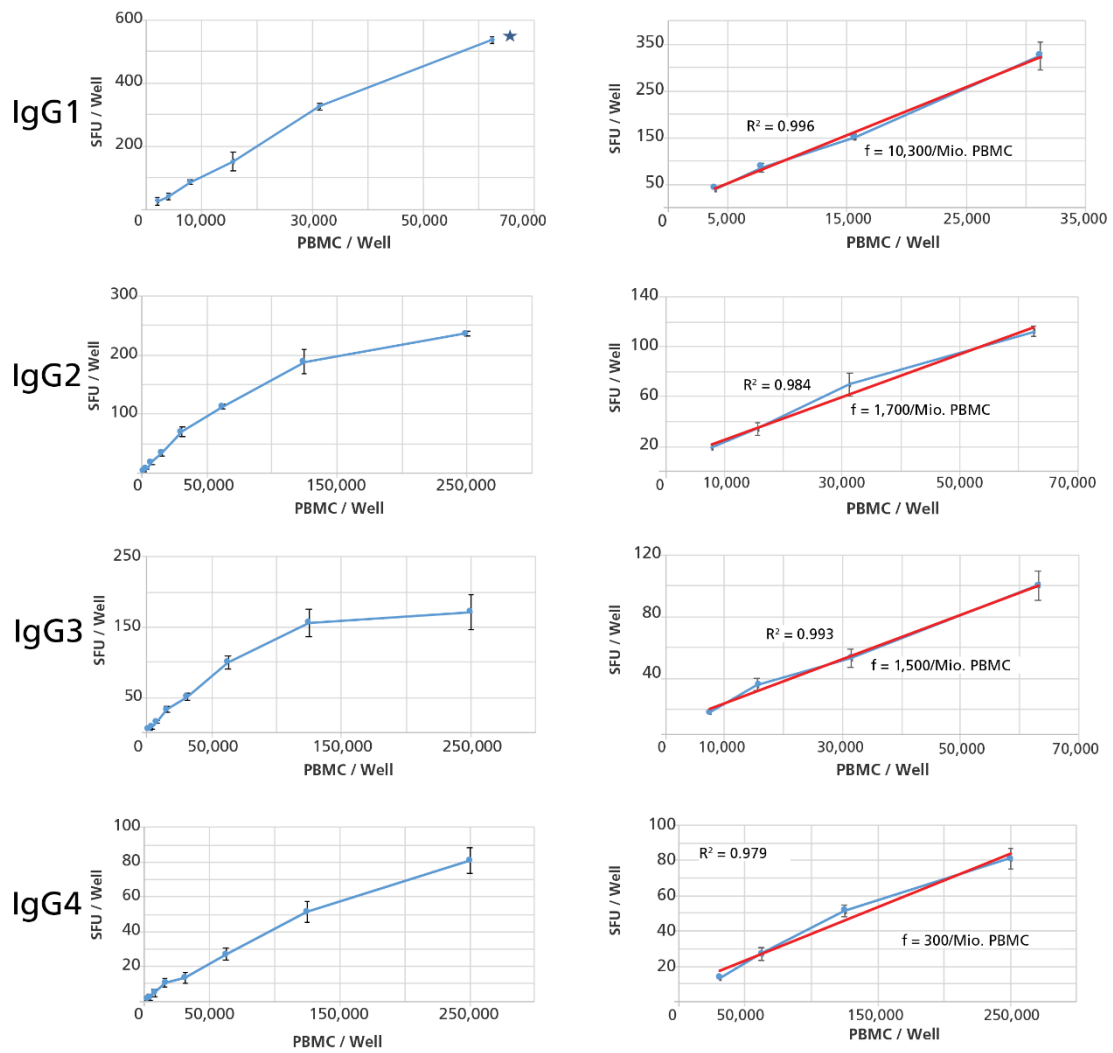
**Figure S2.** Partially overlapping spectra of standard organic fluorochromes. The figure shows the spectra for four standard organic fluorochromes, specified in the insert by color.



**Figure S3.** Calculating frequencies for IgM ASC in PBMC illustrated. The legend to Figure 4 applies, except here IgM was detected and analyzed.



**Figure S4.** Calculating frequencies for IgA ASC in PBMC illustrated. The legend to Figure 4 applies, except here IgA was detected and analyzed.



**Figure S5.** Calculating frequencies for ASC secreting IgG subclasses within PBMC. The legend to Figure 4 applies, except here the four IgG subclasses were detected using a corresponding four color IgG1/IgG2/IgG3/IgG4 ImmunoSpot® assay.