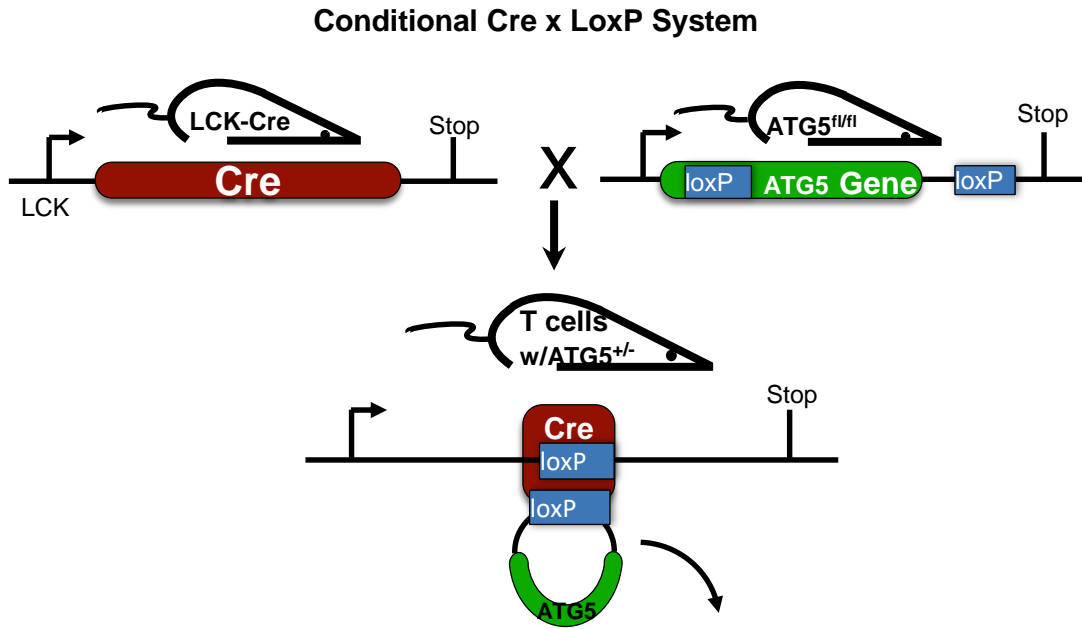
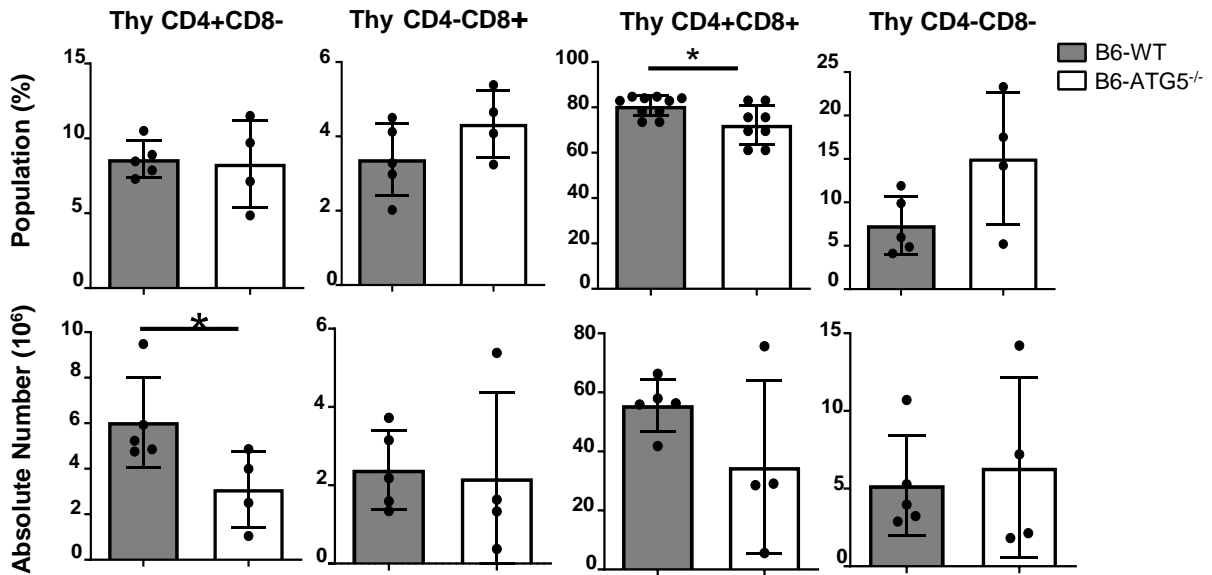
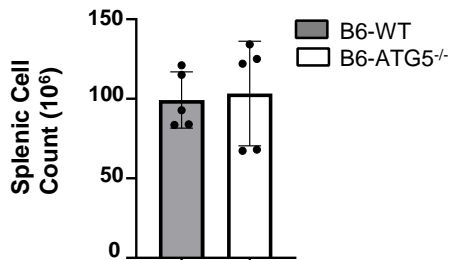
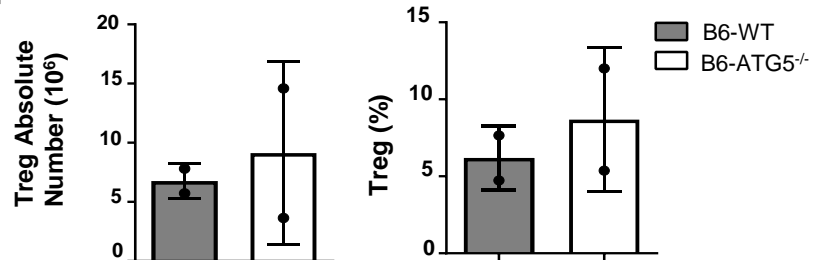
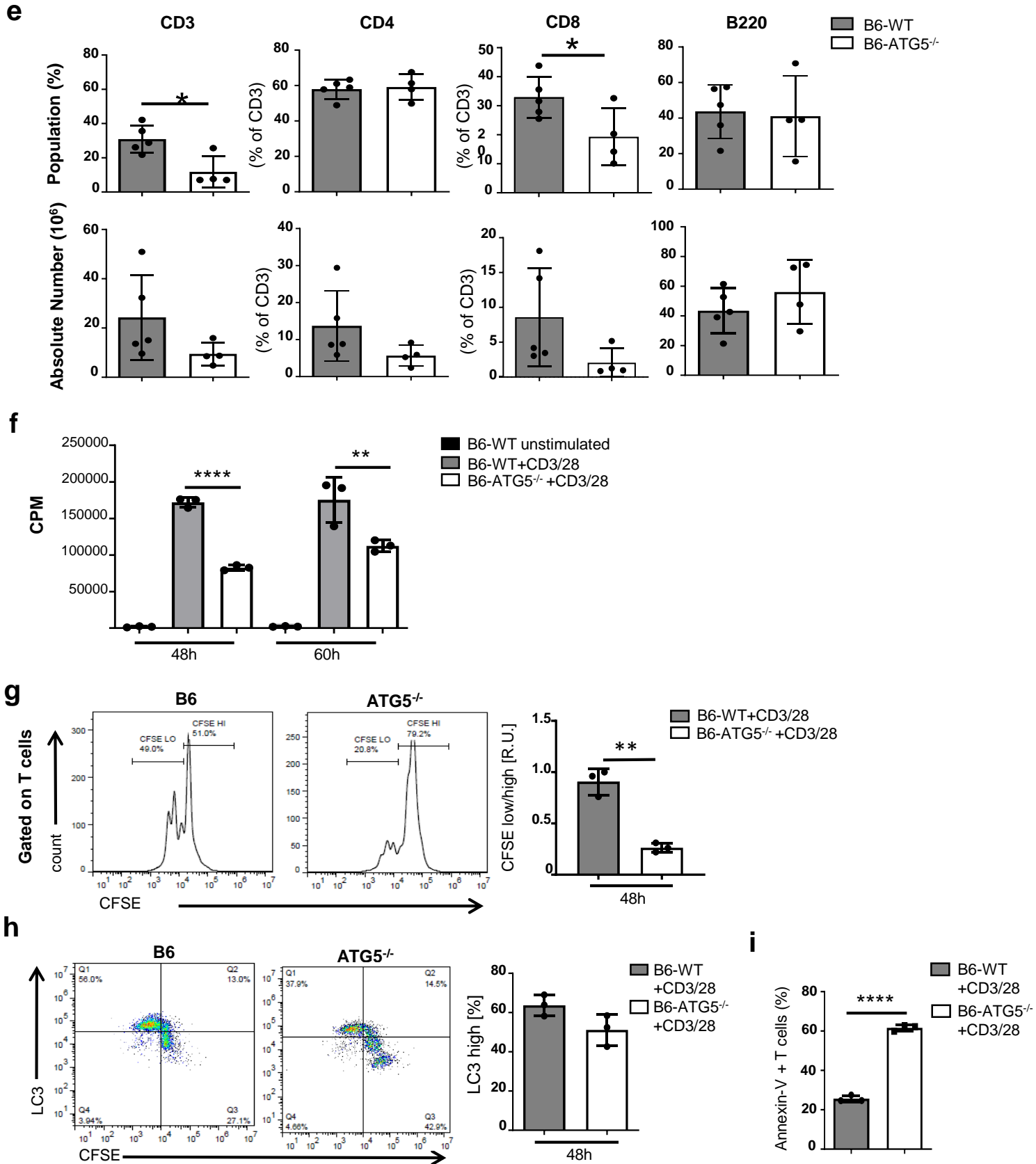
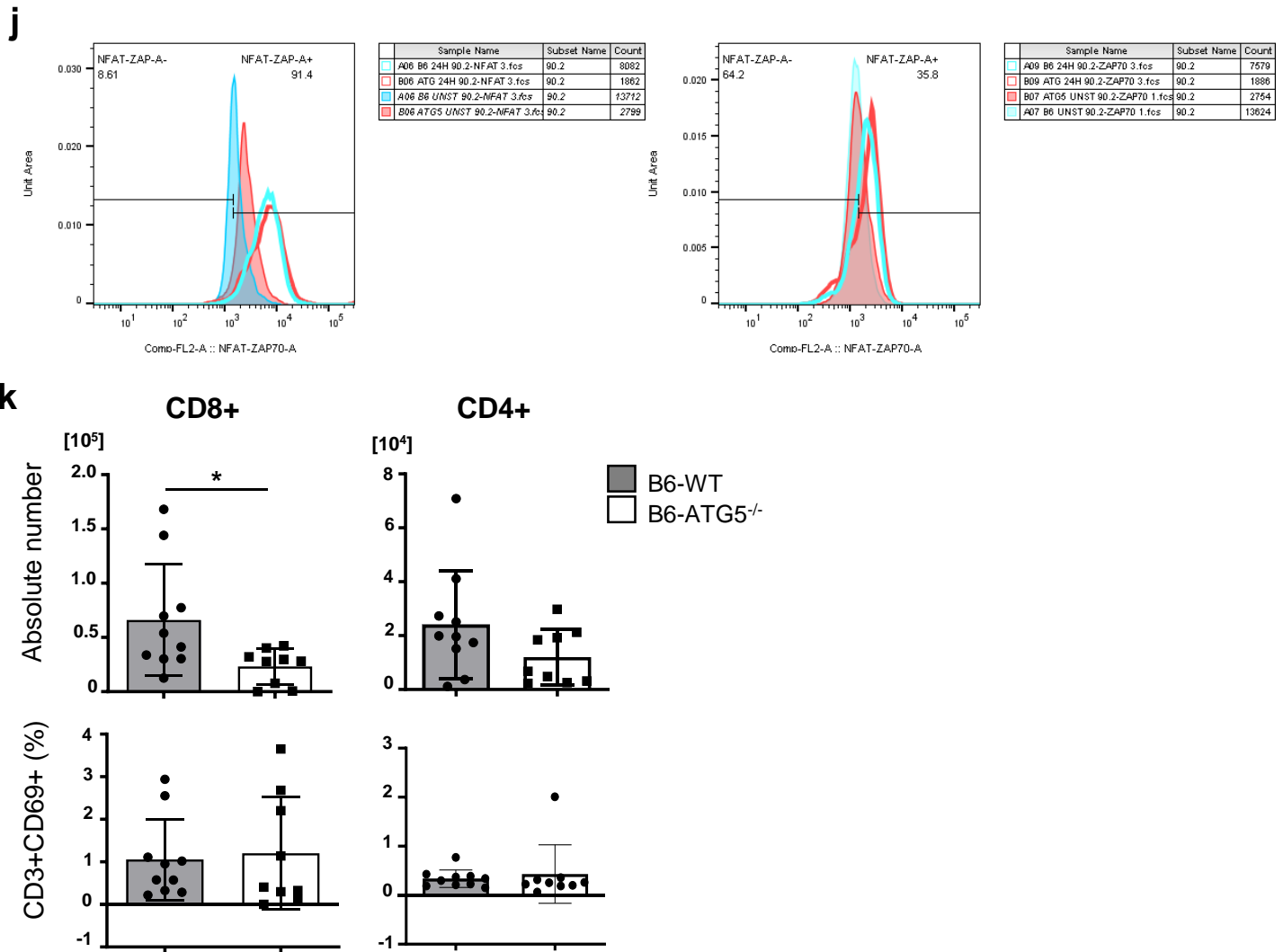


a**b****c****d**





SFig. 2 Phenotypic analysis of ATG5^{-/-} knockout animals. (a) Schematic of the Conditional Cre-LoxP system **(b)** B6-WT and B6-ATG5^{-/-} mice thymic profile. Whole spleens were analyzed by flow cytometry to phenotypic analysis of cell populations between B6-WT and B6-ATG5^{-/-} mice. **(c)** Whole spleen cellularity from B6-WT and B6-ATG5^{-/-} mice **(d)** Treg profiles **(e)** Lymphocytic cell populations and absolute numbers **(f)** CD90.2-positive B6-WT and B6-ATG5^{-/-} T cells were purified, before being transferred to a stimulation plate previously coated with anti-CD3/CD28. Unstimulated T cells serve as controls. T cell proliferation based on ³H-thymidine incorporation was analyzed at 48 and 60 hours. The data in CPM are the mean \pm SEM of triplicates from 2 independent experiments. **(g)** T cells were labeled with CFSE prior to stimulation with anti-CD3/CD28 and analyzed for CFSE dilution at 48 hours. Left panel: representative histograms of CFSE dilution. Right panel: mean of the ratios CFSE^{low}/CFSE^{high} \pm SEM of triplicates. Data are representative of 2 independent experiments. **(h)** B6-WT and B6-ATG5^{-/-} T cells were sorted, labeled with CFSE and stimulated with CD3/28 as in Supplemental Figure 2g. At 48h, they were harvested, stained intracellular for LC3 and analyzed by FACS. Left panel: representative figures gated on T cells for CFSE^{high/low} and LC3^{high/low} populations. Right panel: the graph represents the mean percentage of LC3^{high} CD90.2-positive T cells \pm SEM of triplicates **(i)** After CD3/28 stimulation for 48h, activated B6-WT and B6-ATG5^{-/-} T cells were stained with Annexin-V and analyzed by flow cytometry. (i) Data is representative of 2 independent experiments. **(j)** Histogram overlays of flow cytometry data at 24 hr time point analysis of Left Panel: NFAT Right Panel: Zap-70. These are representative histograms from 3 independent experiments. **(k)** Donor T cells were analyzed for activation markers 7 days post BMT transplant. *P < 0.05; **P < 0.01; ***P < 0.001; ****P < 0.0001.