OPEN ACCESS Freely available online

PLOS ONE

Correction

Correction: The Non-Classical MAP Kinase ERK3 Controls T Cell Activation

The *PLOS ONE* Staff

There are errors in Figure 5B. The same panels have been inserted twice, and the panels for 1μg and 3μg are identical. Please see the corrected Figure 5 here.

Citation: The *PLOS ONE* Staff (2014) Correction: The Non-Classical MAP Kinase ERK3 Controls T Cell Activation. PLoS ONE 9(8): e104727. doi:10.1371/journal.pone.0104727

Published August 1, 2014

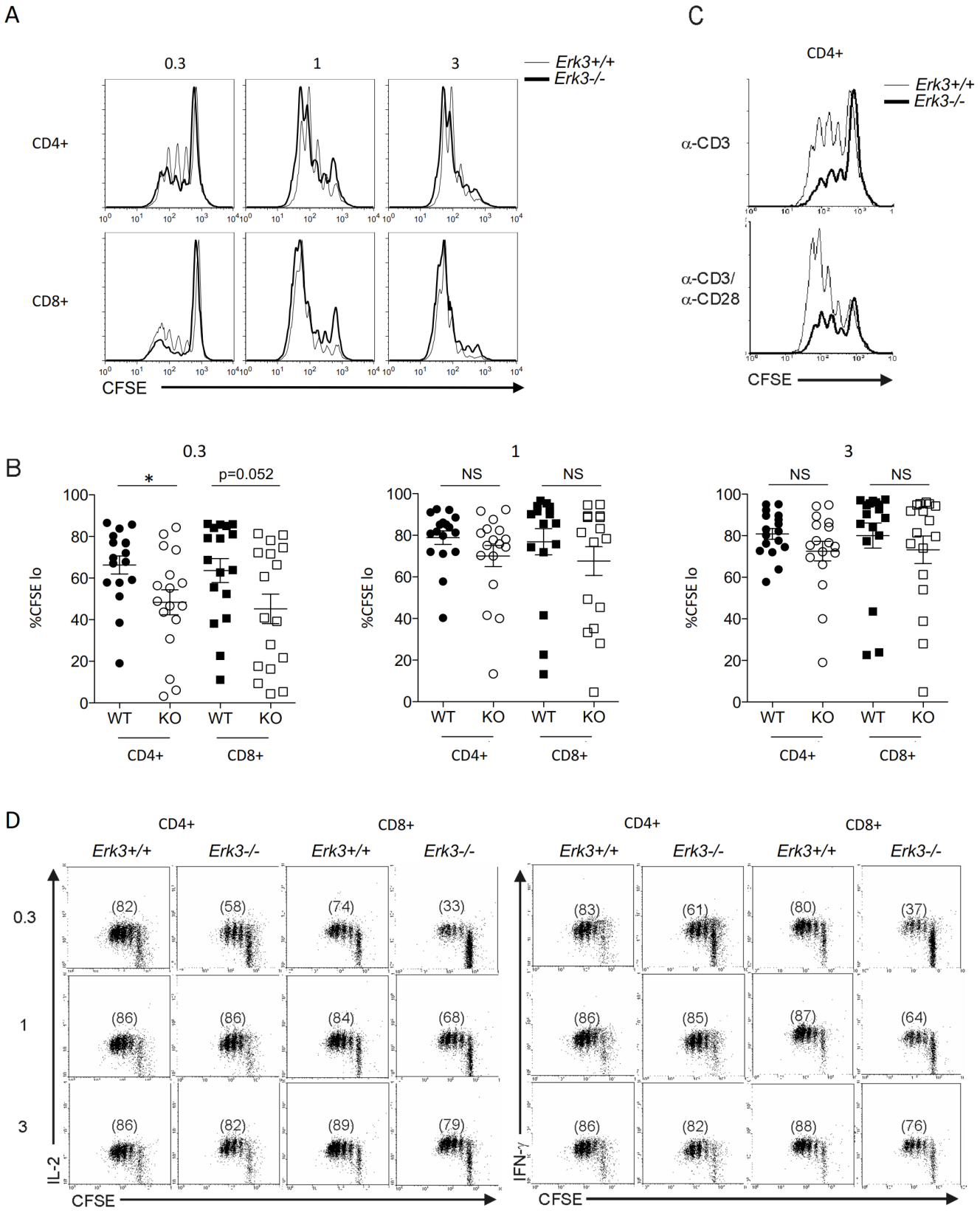

Figure 5. Defective proliferation and cytokine production by ERK3-deficient T cells. *A*, Defectiveproliferation of *Erk3*$^{-/-}$ T lymphocytes after anti-CD3 stimulation. Splenocytes from *Erk3*$^{+/+}$or *Erk3*$^{-/-}$ hematopoietic chimeras were labeled with CFSE and stimulated with different doses of anti-CD3 Ab for 72 h. CFSE profiles gated on CD4^{+} or CD8^{+} T cells lacking or not ERK3 are shown for the different anti-CD3 Ab concentrations. One representative experiment is shown. *B*, Quantification of T cell proliferation. T cell proliferation, measured as in A, was quantified by determining the percentage of cells that have divided (one division and more; CFSE^{lo}). Each dot represents the results from one mouse. Unpaired Student's t test (two-

sided) was used to determine statistical significance. * $p<0.05$. *C*, Addition of anti-CD28 Abs does not rescue the proliferation of ERK3-deficient $CD4^+$ T cells. Splenocytes were stimulated with a sub-optimal dose of anti-CD3 Ab (0.3 μg/ml) in the presence (bottom) or absence (top) of soluble anti-CD28 Ab (5 μg/ml). CFSE profiles gated on $CD4^+$ T cells lacking or not ERK3 are shown. *D*, Reduced production of IL-2 and IFN-γ by ERK3-deficient T cells after anti-CD3 stimulation. After 72 h of anti-CD3 stimulation, activated T cells were stimulated with PMA and ionomycin for 4 h. Brefeldin A was added for the last 2 h of culture. IL-2 and IFN-γ production was detected using intracellular cytokine staining. CFSE/IL-2 and CFSE/IFN-γ profiles gated on $CD4^+$ or $CD8^+$ T lymphocytes deficient or not for ERK3 are shown for the different anti-CD3 Ab concentrations. Numbers in parenthesis represent the % of proliferating and cytokine producing cells. The results in this figure are representative of at least three independent experiments with mice from independent hematopoietic chimeras
doi:10.1371/journal.pone.0086681.g005

Reference

1. Marquis M, Boulet S, Mathien S, Rousseau J, Thébault P, et al. (2014) The Non-Classical MAP Kinase ERK3 Controls T Cell Activation. PLoS ONE 9(1): e86681. doi:10.1371/journal.pone.0086681