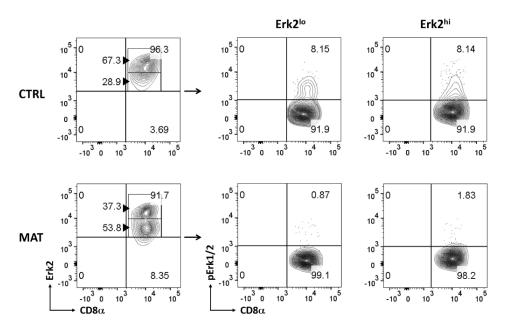
Supplementary Material

Gastrointestinal microbiome dysbiosis in infant mice alters peripheral CD8⁺ T cell receptor signaling

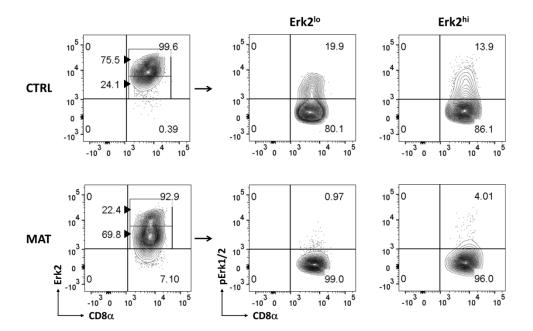
Authors: Gabriela Gonzalez-Perez¹ and Esi S.N. Lamousé-Smith^{1*}, ¹Division of Pediatric Gastroenterology, Hepatology and Nutrition, Department of Pediatrics, Columbia University Medical Center, New York, NY 10032

*Correspondence: Corresponding Author enl2118@cumc.columbia.edu

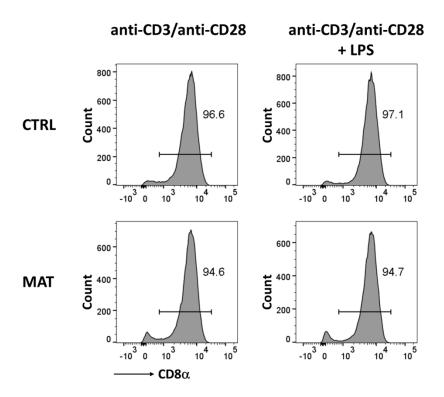
Supplementary Figure 1



Supplementary Figure 1. MAT effector CD8⁺ **T cells do not sustain phosphorylation of Erk-1/2.** Total T cells enriched from the spleens of uninfected dol 15 CTRL and MAT infant mice were stimulated with anti-CD3/anti-CD28 for 72 hours and effector (CD44⁺) CD8⁺ T cells were analyzed for the expression of Erk2 and phospho-Erk-1/2 (pErk-1/2) by flow cytometry. The percentage of effector CD8⁺ T cells expressing low or high levels of Erk2 (Erk2^{lo} and Erk2^{hi}, respectively) and the gating analysis of their corresponding pErk-1/2 expressing populations is shown. Data is representative of two independent experiments.



Supplementary Figure 2. Purified MAT effector CD8⁺ **T cells do not sustain phosphorylation of Erk-1/2.** Total CD8⁺ T cells purified from gender-matched pooled spleens of uninfected dol 15 CTRL and MAT infant mice were stimulated with anti-CD3/anti-CD28 for 72 hours and effector (CD44⁺) CD8⁺ T cells were analyzed for the expression of Erk2 and phospho-Erk-1/2 (pErk-1/2) by flow cytometry. The percentage of effector CD8⁺ T cells expressing low or high levels of Erk2 (Erk2^{lo} and Erk2^{hi}, respectively) and the gating analysis of their corresponding pErk-1/2 expressing populations is shown.



Supplementary Figure 3. CD8 T cell purity from MAT and CTRL effector T cells generated *in vitro* with or without LPS. Total CD8 $^+$ T cells purified from gender-matched pooled spleens of uninfected dol 15 CTRL and MAT infant mice were stimulated with anti-CD3/anti-CD28 with or without *Escherichia coli*-derived LPS (1 μ g/ml) for 72 hours. The percentage of CD8 $^+$ T cells in these cultures is shown. Data is representative of three independent experiments.