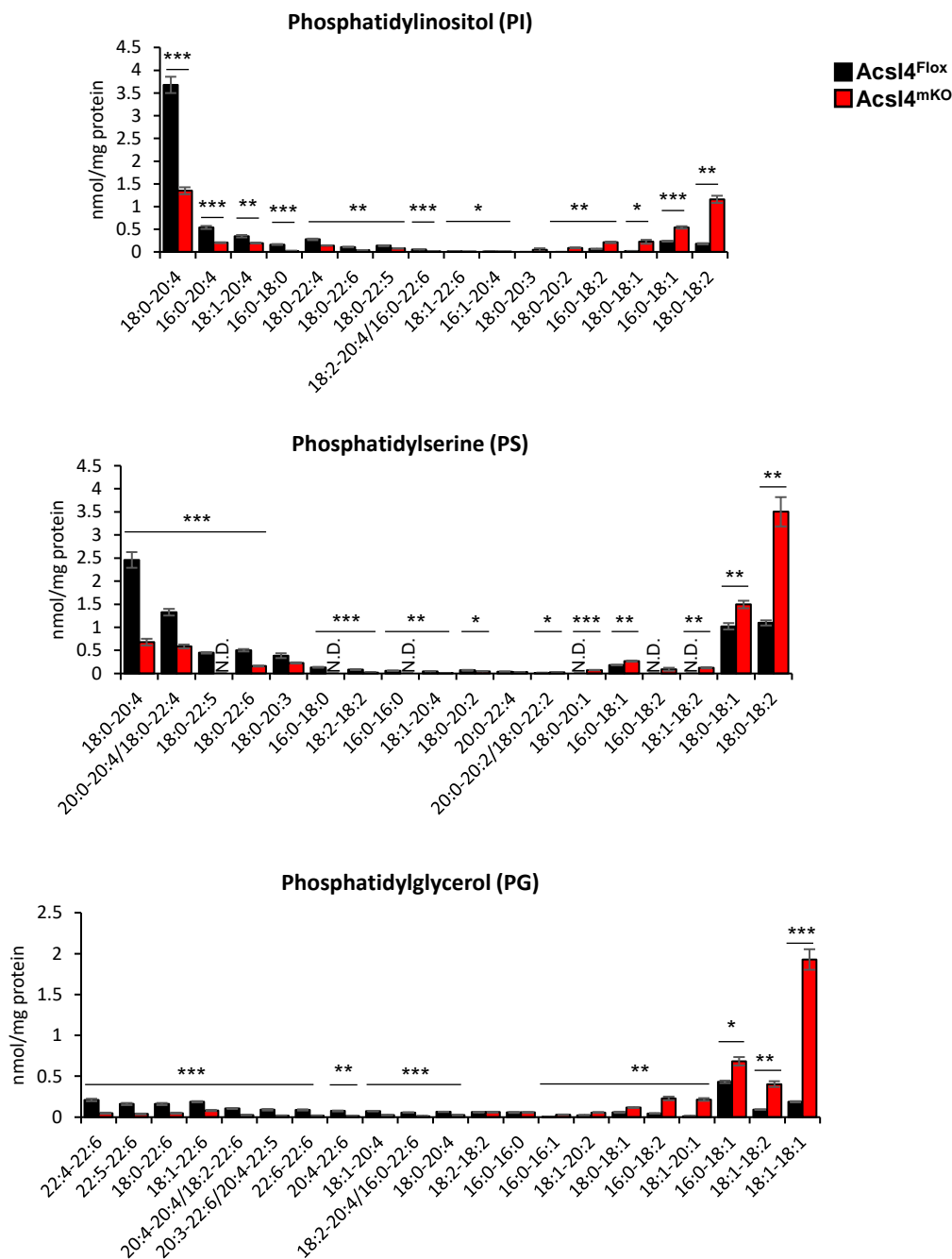
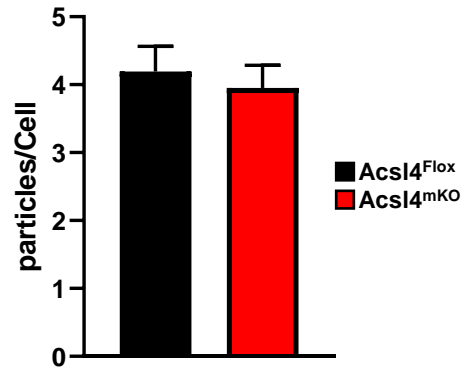
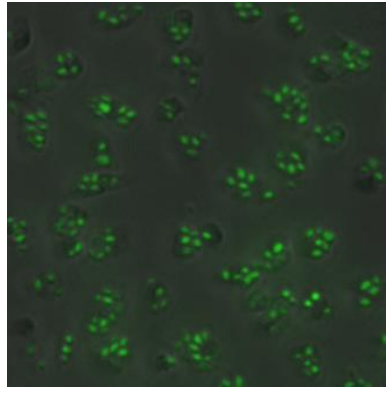
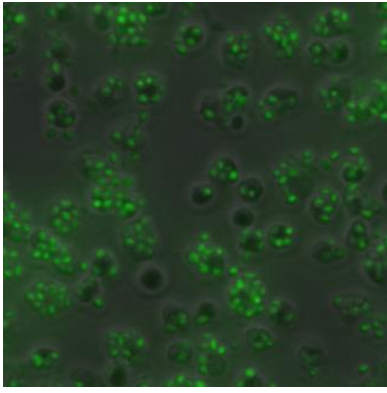


**Supplemental Figure 1.** Verification of FACS protocol and macrophage purification protocol. A) Gating strategy with monoclonal antibodies against mouse CD11b, F4/80, and Ly6G using fluorescence-minus-one (FMO) on cells obtained from peritoneal lavage of a single mouse ( $n=1$ ). B) Determination of the purity of CD11b<sup>+</sup> F4/80<sup>+</sup> macrophages isolated by negative selection ( $n = 1$  mouse).



**Supplemental Figure 2.** Addendum to Fig. 2, loss of Acs14 reduces 20:4, 22:5, 22:6 fatty acids from phospholipids. Phospholipids were extracted from isolated rpMACs and analyzed by LC-MS/MS. Fatty-acyl species of phosphatidylinositol (PI), phosphatidylserine (PS), and phosphatidylglycerol. n = 4/genotype, \* p ≤ 0.05, \*\* p ≤ 0.01, \*\*\* p ≤ 0.001 by student's t-test. N.D., not detected.

ACSL4<sup>fl/fl</sup>ACSL4<sup>LysM-Cre</sup>

**Supplemental Figure 3.** Loss of *Acsl4* does not alter zymosan uptake by rpMACs. Zymosan with conjugated AlexaFluor-488 fluorescent label was opsonized and rpMACs were treated for 1 hour (10 particles/cell). After quenching extracellular fluorescence with trypan blue, the number of particles per cell was counted. Images are representative of 3 fields of view from  $n = 2$  mice per group.