







Figure S1 related to Figure 1. C. elegans DKF-1/protein kinase D is necessary and sufficient for the activation of HLH-30. (A) qRT-PCR of *dkf-1 and dkf-2* in lysates from animals treated with empty vector control (EV) or *dkf-1* RNAi. Results are normalized to empty vector control animals. Data are mean  $\pm$  SEM (two biological replicates, two technical replicates,  $n \ge 3,000$  per condition) \*  $p \le 0.05$  (two-sample *t* test). (B) Lifespan of wild type and *hlh-30* mutant animals reared on *E. coli* HT115 carrying *dkf-1* RNAi or empty vector control prior to transfer to *E. coli* OP50. \*\*\*  $p \le 0.001$  (Log-Rank test). (C) Survival of wild type and *dkf-1*(ok2695) mutant animals infected with *S. aureus*. Shown is a representative experiment of three biological replicates. (D) qRT-PCR of *ilys-2* in wild type or in *pkc-1, pkc-2, tpa-1, or dkf-2* mutants. Results are normalized to wild type animals. Data are mean  $\pm$  SEM (two biological replicates, two technical replicates,  $n \ge 3,000$  per condition). (E) Survival of animals reared on *E. coli* HT115 carrying *plc-1* RNAi or empty vector control (EV) RNAi. \*\*\*  $p \le 0.001$  (Log-Rank test). (F) Lifespan of animals fed *E. coli* carrying *plc-1* RNAi or empty vector control (EV) RNAi. \*\*\*  $p \le 0.001$  (Log-Rank test).

Figure S2 related to Figure 3. PKD1 and PKCa/ $\gamma$  are necessary for activation of TFEB by infection. TFEB-GFP RAW264.7 cells were preincubated with PKC and PKD inhibitors for 1 h previous to infection with *S*. *enterica* (MOI = 100) for 2 hours. Shown are representative images from one replicate, and quantification of three biological replicates of three technical replicates each. Scale bars = 100 µm. (A) DMSO control. (A') detail. (B) *S*. *enterica* SL1344. (B') detail. (C) 5 µM CRT0066101 (PKD inhibitor). (C') detail. (D) 5 µM Bisindolylmaleimide IV (pan-PKC inhibitor). (D') detail. (E) 10 µM PKCε Inhibitor Peptide (selectively inhibits PKCε). (E') detail. (F) Percentage of cells with nuclear translocation was measured with Gen5 analysis software. (G) GFP intensity in nucleus compared to cytoplasm (N/C ratio) was measured using CellProfiler. Please see *Methods* for more detail. \*\*  $p \le 0.01$ , \*\*\*  $p \le 0.001$  (One-way ANOVA followed by Tukey's post-hoc test).

**Figure S3 related to Figure 4. PKC is necessary for TFEB activation after** *S. aureus* **infection.** TFEB-FLAG RAW264.7 cells were incubated with inhibitor for 1 h prior to infection with *S. aureus* NCTC8325 (MOI = 10) for 2 h, followed by anti-FLAG immunofluorescence and Hoechst DNA staining. Shown are representative images from one replicate, and quantification of three biological replicates of three technical replicates each. Scale bars = 100  $\mu$ m. (**A**, **B**) DMSO control. (**C**, **D**) *S. aureus*. (**E**, **F**) *S. aureus* previously killed with 100  $\mu$ g/ml gentamicin. (**G**, **H**) 5  $\mu$ M Bisindolylmaleimide IV (pan-PKC inhibitor). (**I**, **J**) 5  $\mu$ M Gö 6983 (pan-PKC inhibitor). (**K**) Percentage of cells with nuclear translocation was measured with Gen5 analysis software. (**L**) GFP intensity in nucleus compared to cytoplasm (N/C ratio) was measured using CellProfiler. Please see *Methods* for more detail. \*\*  $p \le 0.01$ , \*\*\*  $p \le 0.001$  (One-way ANOVA followed by Tukey's post-hoc test).

## Figure S4 related to Figure 5A, K. Whole immunoblot pictures with size markers for TFEB

**antibody.** (**A**, **B**) RAW264.7 cells were infected with *S. enterica* SL1344 (MOI = 100) for 0 (control), 10, 20, 30, 60, and 120 min, lysed, and subjected to immunoblot analysis. (**A**) TFEB antibody. (**B**) TFEB antibody after SL1344 infection plus 10  $\mu$ M kb-NB142-70 (specific PKD inhibitor). MW, molecular weight. The TFEB band is indicated on the right.