



Fig. S11. *Mucispirillum*-specific IgA and IgG cooperate in conferring protection against colitis in doubly deficient *Nod2/Cybb* mice. (A) Mouse survival over time after fostering newborns DKO to Jax *IgA*^{-/-} (DKO to Jax *IgA*^{-/-}, n=12) or to Tac-co-housed *IgA*^{-/-} mothers (DKO to Tac *IgA*^{-/-}, n=8). Jax *IgA*^{-/-} (n=3) and Tac *IgA*^{-/-} (n=4) pups, that were not fostered, were included as controls. Data are pooled from two independent experiments. Log-rank test. (B) Representative images (top) and H&E-stained colonic sections (bottom) from 21-day old DKO fostered to Jax *IgA*^{-/-} or to Tac *IgA*^{-/-} mothers, and non-fostered Jax *IgA*^{-/-} and Tac *IgA*^{-/-} mice. Scale bar, 500 μm. (C) Histopathological scores of colonic tissue from (21-day old) DKO fostered to Jax *IgA*^{-/-} (n=12) or Tac *IgA*^{-/-} mothers (n=8), non-fostered Jax *IgA*^{-/-} (n=3) and Tac *IgA*^{-/-} mice (n=4). Each dot represents an individual mouse. Data are pooled from two independent experiments. (D) Mouse survival over time after fostering newborns DKO to either Jax *FcRn*^{-/-} (DKO to Jax *FcRn*^{-/-}, n=7) or to Tac-co-housed *FcRn*^{-/-} mothers (DKO to Tac *FcRn*^{-/-}, n=5). Jax *FcRn*^{-/-} (n=3) and Tac *FcRn*^{-/-} (n=3) pups, that were not fostered, were included as controls. Data are pooled from two independent experiments. Log-rank test. (E) Representative images (top) and H&E-stained colonic sections (bottom) from 21-day old DKO fostered to Jax *FcRn*^{-/-} or to Tac *FcRn*^{-/-} mothers, non-fostered Jax *FcRn*^{-/-} and Tac *FcRn*^{-/-} mice. Scale bar, 500 μm. (F) Histopathological scores of colonic tissue from (21-day old) DKO fostered to Jax *FcRn*^{-/-} (n=7) or Tac *FcRn*^{-/-} mothers (n=5), non-fostered Jax *FcRn*^{-/-} (n=3) and Tac *FcRn*^{-/-} mice (n=3). Each dot represents an individual mouse. Pooled data from two independent experiments.