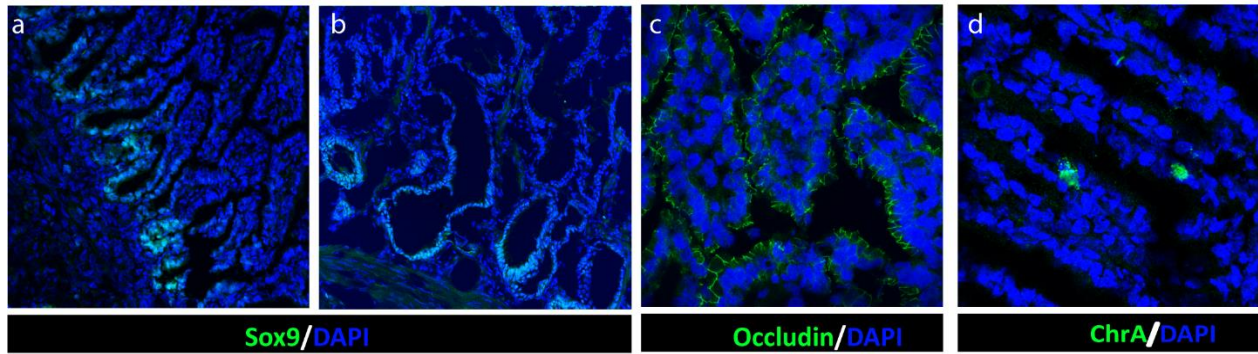
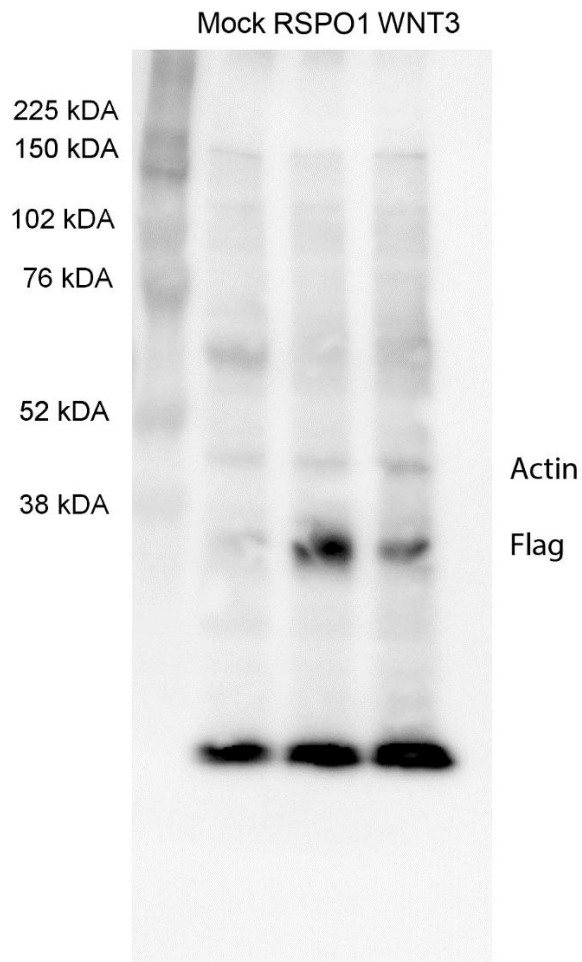




Supplementary figure 1. Confirming functionality of antibodies in chicken tissue. Immunohistochemistry images of embryonic intestinal tissues stained with antibodies mentioned in Table 1. **(a)** Progenitor cells are visualized with anti-Sox9 in embryonic tissue (magnification 20 x) **(b)** and in adult intestinal tissue **(c)** Tight junctions are visualized with anti-occludin (magnification 63 x) **(d)** Enteroendocrine cells are visualized by anti-chromogranin A. Nuclei are stained with DAPI (blue) (magnification 63x)



Supplementary figure 2. Immunoblot of chicken RSPO1 and chicken WNT3 protein expression in transfected HEK293T cells. Actin was used as the protein loading control and anti-flag HRP was used to visualize RSPO1 and WNT3.