

# **IgT Plays a Predominant Role in the Antibacterial Immunity of Rainbow Trout Olfactory Organs**

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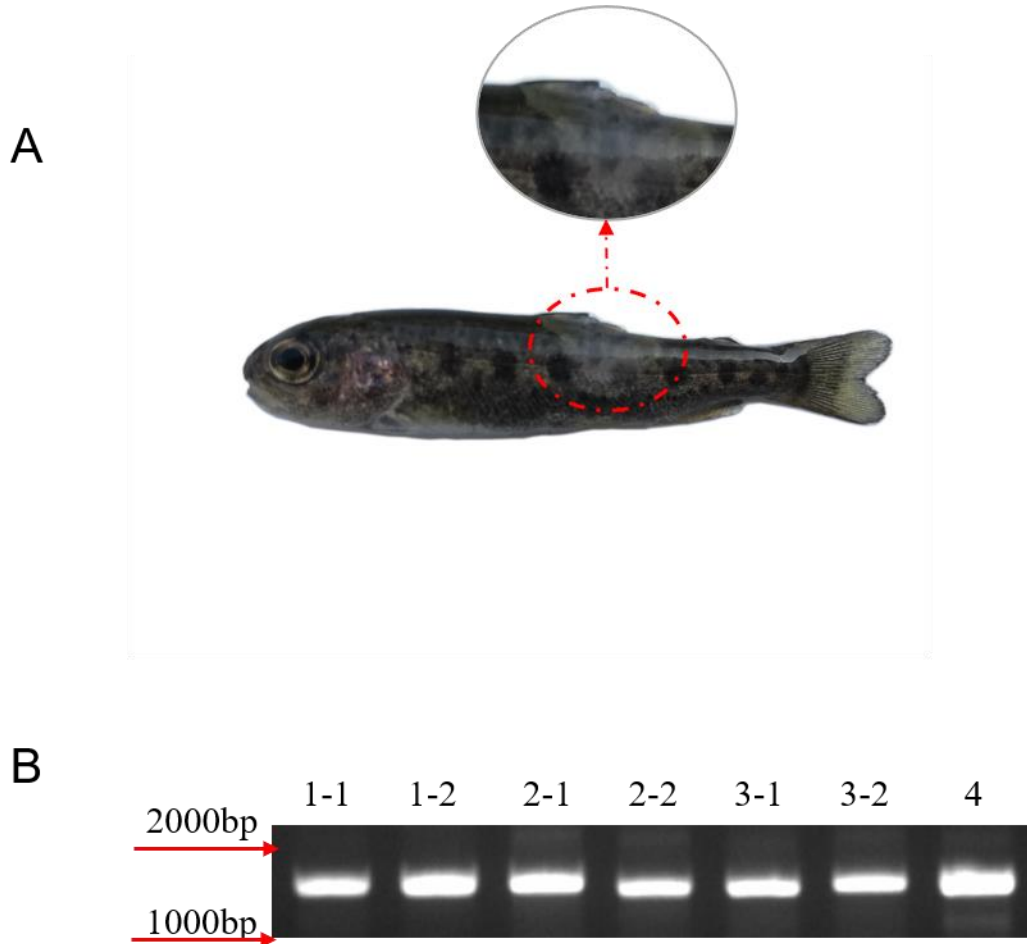
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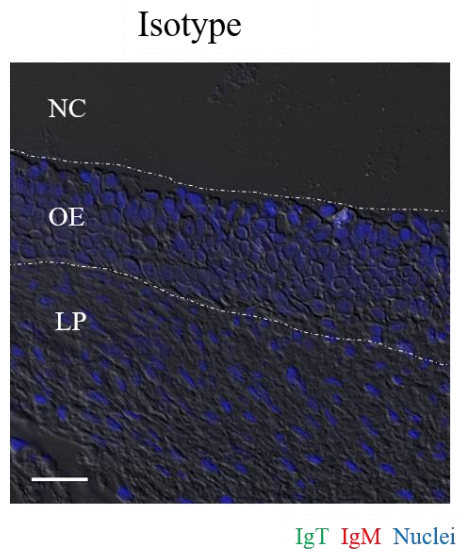
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**FIGURE S1** | Successful *F. columnare* infection in olfactory organ of trout. **(A)** The classical phenotype of columnaris disease, showed skin were pale color and fin rot. **(B)** Detection of single bacterial colonies in plate A from Figure 1A by PCR (right; the red arrows point out three different bacteria colony). The positive control of *F. columnare* (4).

A



**FIGURE S2** | Isotype control staining for anti-IgT and anti-IgM antibodies in trout olfactory organ paraffin-sections. DIC images of olfactory organ paraffin-sections from control fish, with merged staining of isotype control antibodies for anti-trout IgT pAb (green) and anti-trout IgM (red) mAb. Nuclei were stained with DAPI (blue). NC, nasal cavity; OE, olfactory epithelium; LP, lamina propria. Scale bars, 20  $\mu\text{m}$ . Data are representative of three independent experiments.

FIGURE 3E

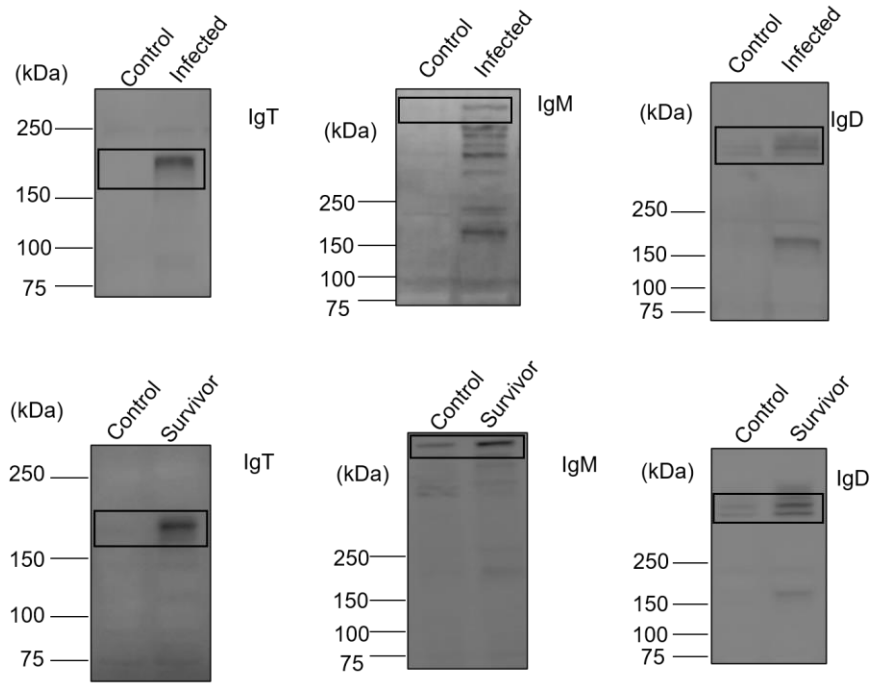
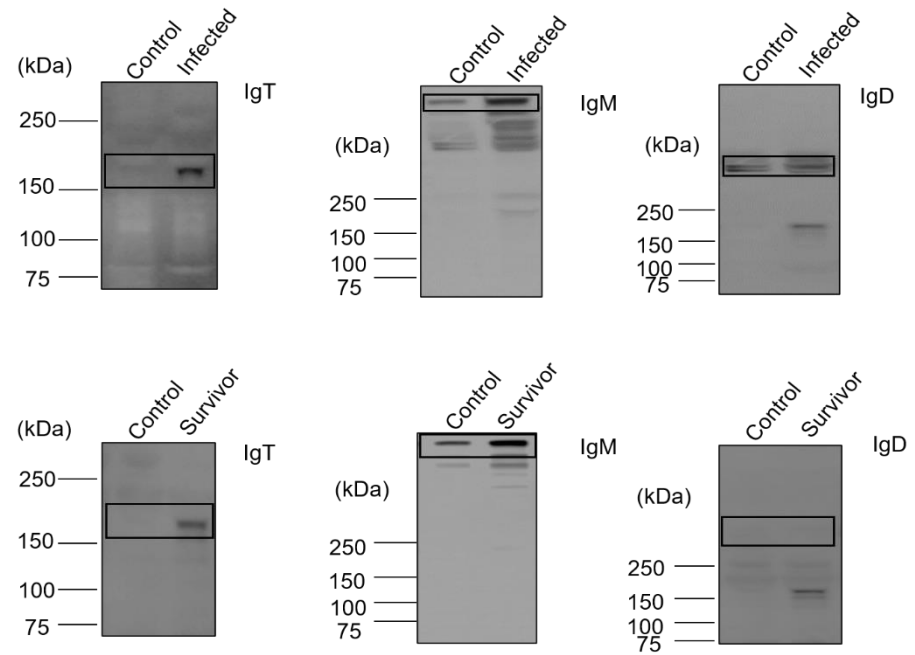


FIGURE 3F



**FIGURE S3 | Original images of the western blot analyses in the main figures.**

FIGURE 4A

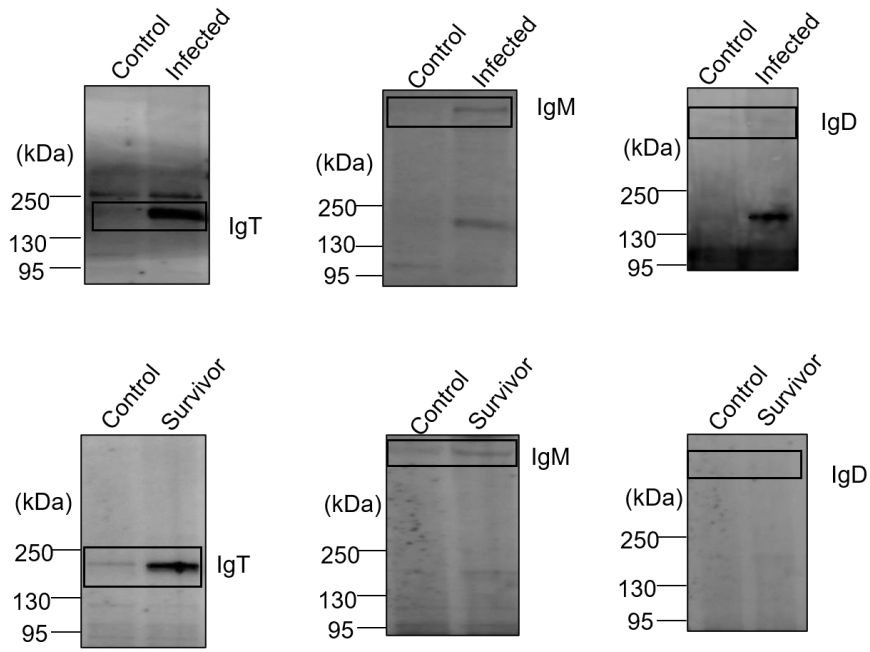


FIGURE 4D

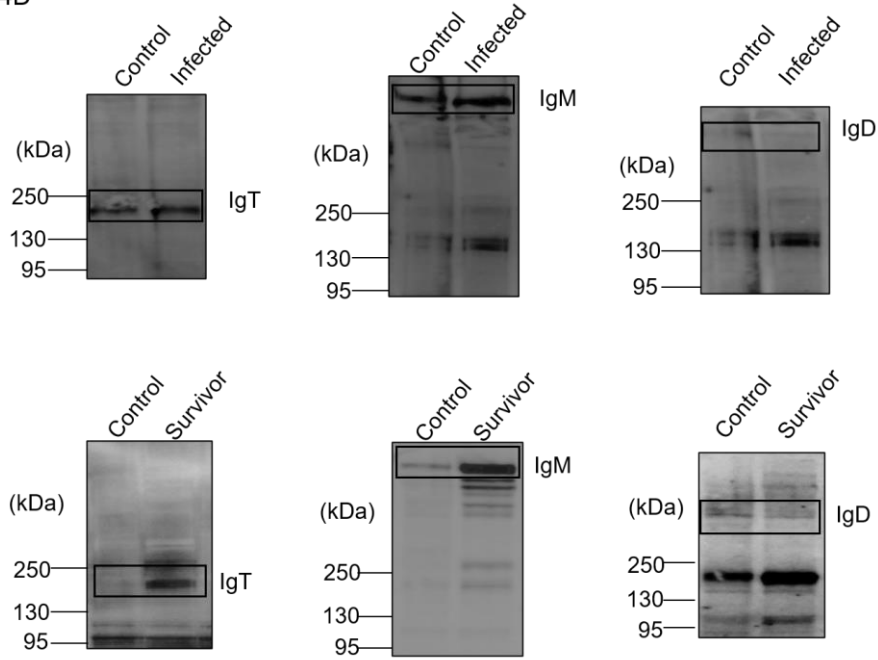
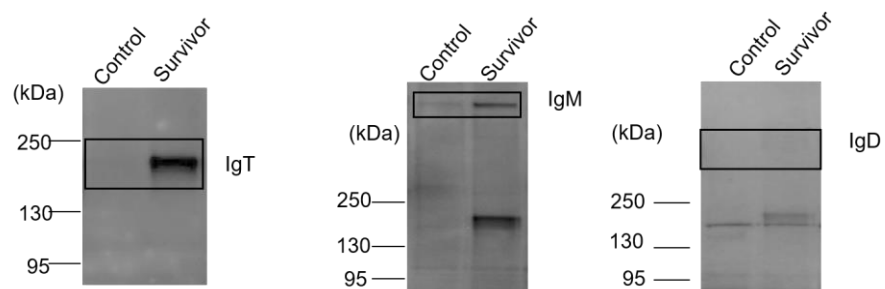


FIGURE 6A



**FIGURE S4 | Original images of the western blot analyses in the main figures.**