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406 **Supplementary figure S4:** Decrease in adherence of TIGR4 strain of *Streptococcus pneumoniae*

407 to A549 cells with treatment of 1 μ g of anti-PhtD and anti-PcpA Fab. The mean CFU adherence

408 of TIGR4 on A549 cells was normalized to 100% and the % adherence of TIGR4 with anti-

409 PhtD, PcpA, Ply and mix Fabs (1 μ g each of anti-PhtD, -PcpA and -Ply) is compared to TIGR4

410 alone. As a non-correlated antibody control, 1 μ g of anti-P6 Fab of *NTHi* were treated with

411 TIGR4 that showed no difference in the CFU to untreated TIGR4. Data represent the mean with

412 standard error of two different experiments in triplicate. * Symbols mean p value of <0.05 and **

413 symbol mean p value of <0.01.

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