



S4 Figure. T4SS activity of 26695 CagL variant strains.

(A) Hummingbird morphology of AGS cells in response to *H. pylori* 26695 CagL^{58/59} substitution mutants at 8 hpi. (B) Immunoblot analysis of phosphorylated CagA in AGS cell lysates harvested at 24 hpi with *H. pylori* strains 26695 wt, 26695ΔcagL, 26695cagL^{wt(NE)}, 26695cagL^{NK}, 26695cagL^{DE}, 26695cagL^{DK}, 26695cagL^{YE}, or sterile culture media (HI). Samples separated over a single SDS-PAGE gel, immunoblotted onto a single membrane and sequentially probed using anti-phosphotyrosine-specific monoclonal antibody PY99 followed by CagA-specific polyclonal antisera; lanes have been digitally reordered for visual ease (see S5 Figure for original blots).