



1 **Supplemental Figure 1.** Cysteine substitutions in IpaB do not alter *S. flexneri* invasion
2 into host cells. Infection of HeLa monolayers with *S. flexneri* Δ *ipaB* expressing wildtype
3 IpaB or a single IpaB cysteine substitution derivative. Positive control, wildtype *S.*
4 *flexneri*. Negative control, *S. flexneri* Δ *ipaB*. Quantification of colony forming units from
5 three independent experiments. (A) IpaB cysteine derivatives within TM1, TM2, and C-
6 terminal extracellular domain. Means \pm SEM are plotted. Black dots represent values
7 obtained from individual experiments. **, $p < 0.01$; ANOVA with Dunnett's *post hoc* test
8 comparing colony forming units of *S. flexneri* Δ *ipaB*, *S. flexneri* Δ *ipaB* expressing each
9 IpaB cysteine derivative, and *S. flexneri* Δ *ipaB* expressing WT IpaB (pWT) to colony
10 forming units of WT *S. flexneri*. (B) IpaB cysteine derivatives within the cytosolic region.
11 The trends observed for data in panel B do not reach statistical significance.