



Figure S3. *E. coli* Opa_{CEA} suppresses detachment of primary vaginal epithelial cells. (*A*) Human vaginal epithelial cells (hVECs) cells were seeded in 24-well plates coated with 25 μg/ml collagen. Confluent layers were left uninfected or infected for 14 h with *E. coli*; *E. coli* Opa_{CEA}; piliated, non-opaque *N. gonorrhoeae* (Ngo P+); non-piliated gonococci expressing a heparansulphate proteoglycan-binding Opa protein (Ngo Opa_{HSPG}); or non-piliated gonococci expressing a CEACAM-binding Opa protein (Ngo Opa_{CEA}). Following infection, cells were washed and remaining cells were stained with crystal violet. Representative areas with remaining cells were photographed. (*B*) hVEC cells were infected and stained as in (A). Staining intensity of undetached cells was determined after dye elution in a spectrophotometer at 550 nm. Bars represent mean ± S.D. of 6 wells. (*C*) hVECs were analysed for CEACAM expression by flow cytometry using a mouse monoclonal anti-CEACAM antibody (clone D14HD11; red line). Gray area indicates staining of hVECs with isotype-matched control antibody.