Supplementary Information

Temperature-dependent folding allows stable dimerization of secretory and virus-associated E proteins of Dengue and Zika viruses in mammalian cells

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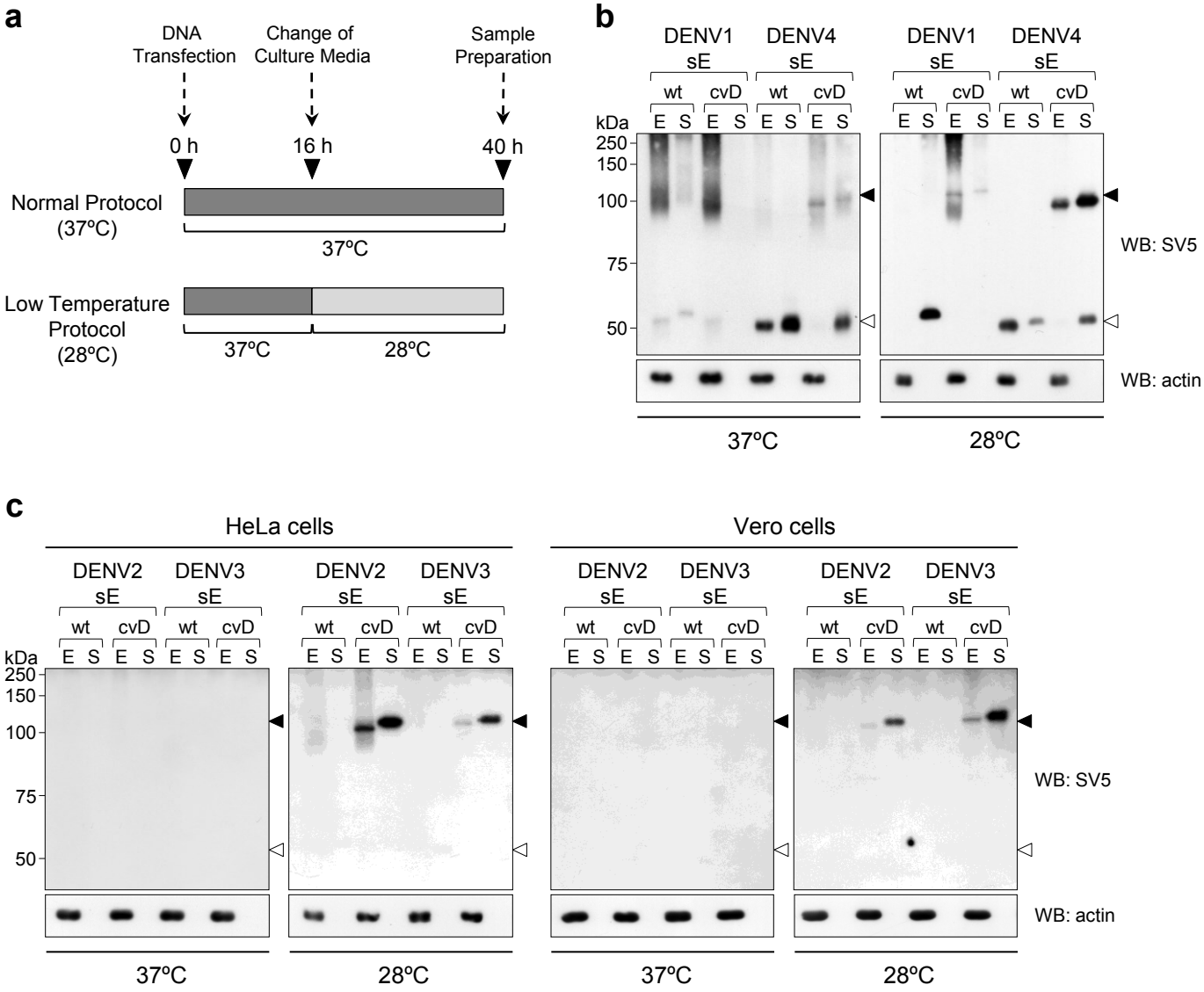
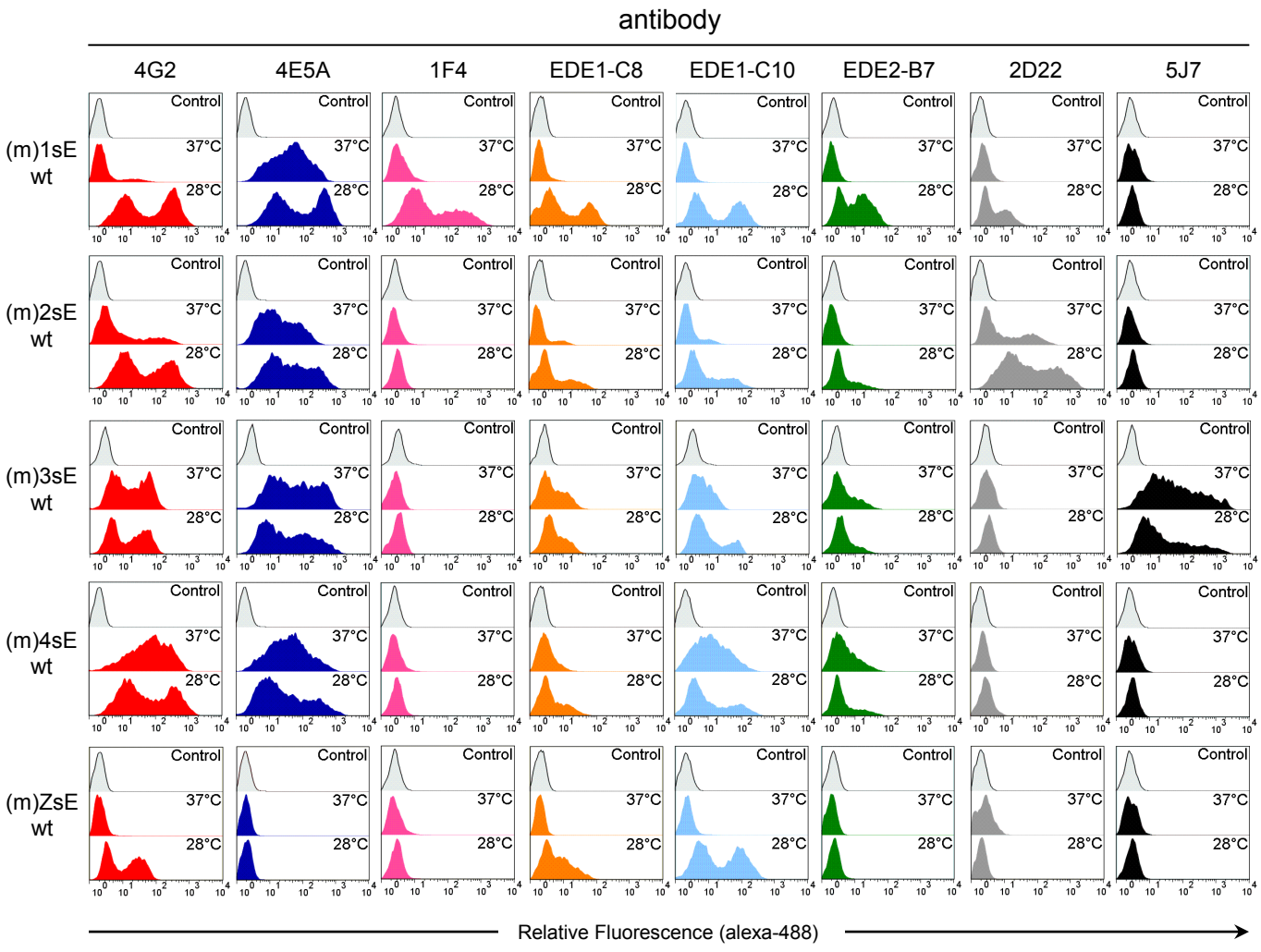
Supplementary Figure S1



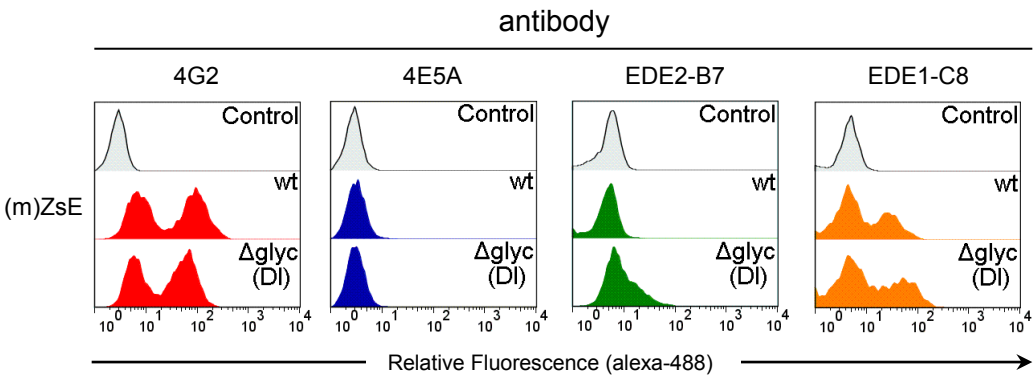
Supplementary Figure S1. Dimerisation and secretion of sE proteins in mammalian cells. a) Scheme of the experimental conditions after transfection and temperature shifts. **b)** Non-reducing western blots of total cell extracts (E) and culture supernatants (S) of HEK-293T cells transfected with sE-wt and sE-cvD constructs of DENV1 and DENV4, incubated at 37ºC (left panel) or at 28ºC (right panel). Open and filled arrowheads indicate monomeric and dimeric sE, respectively. **c)** Dimerisation and secretion of sE-wt and sE-cvD of DENV2 and DENV3 in HeLa (left) or Vero cells (right), incubated at 37ºC or 28ºC, as indicated.

Supplementary Figure S2



Supplementary Figure S2. Structural analysis of sE-wt proteins from DENV and ZIKV. Cytofluorimetric analysis of HEK-293T cells transfected with the membrane display sE-wt versions of all four DENV serotypes and ZIKV at 37ºC or 28ºC and reacted with the indicated mAbs. Mock-transfected HEK-293T cells incubated with each mAb served as controls.

Supplementary Figure S3



Supplementary Figure S3. Effect of E glycosylation on EDE2 B7 reactivity. Cytofluorimetric analysis of HEK-293T cells transfected at 28ºC with the sE membrane display construct of ZIKV wt or the non-glycosylated mutant (Δglyc) on domain I (T156I), and reacted with the indicated mAbs. Mock-transfected HEK-293T cells incubated with each mAb served as controls.