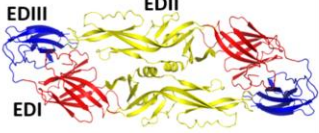
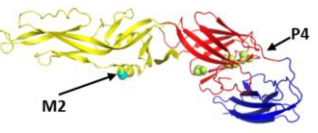
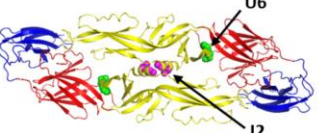
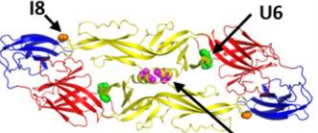
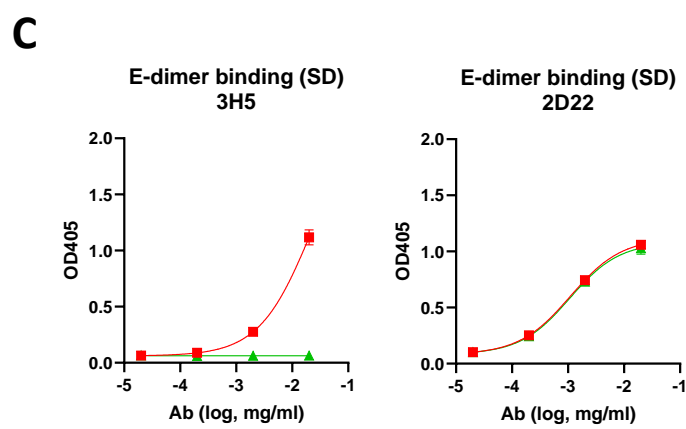
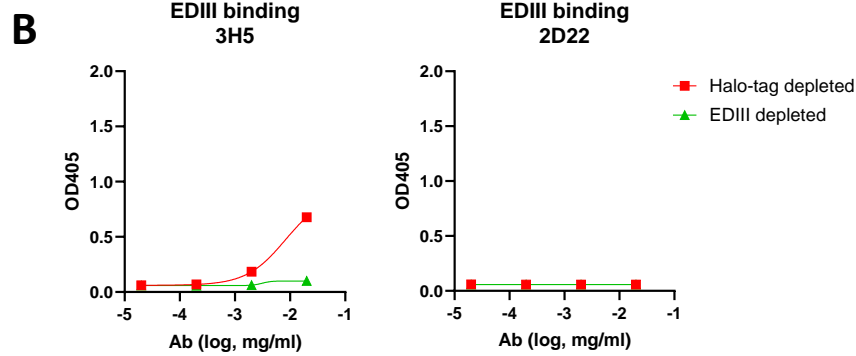
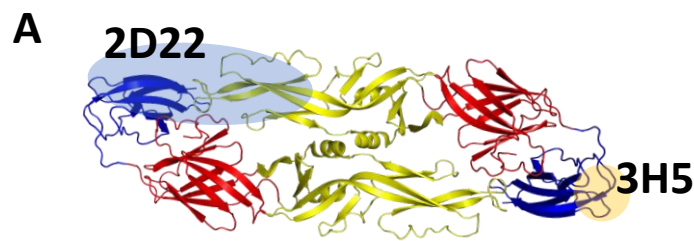


**Supplementary Table 1.** DENV2 Soluble E proteins (Name and mutations)used as vaccines and/or in immune assays. Structures based on PDB 1OAN.

	WT	Monomer/ M2P4	SD	SD*FL
Mutations		M2 (G258E), P4 (S29K, T33V, A35M)	I2 (A259W, T262R), U6 (F279W, T280P)	I2, U6, I8 (G106D)
Previously published name <sup>10</sup>		SC.25	SC.14	SC.10
				

Supplementary Figure 1



**Supplementary Figure 1. Recombinant EDIII antigen depletes Abs binding to simple EDIII epitopes but not Abs binding to quaternary structure epitopes that include EDIII (A) Epitope location of simple EDIII-targeting MAb 3H5 and quaternary epitope-targeting MAb 2D22. The MAbs were incubated with immobilized recombinant EDIII or a control antigen (Halo-tag) to deplete EDIII binding Ab and tested for binding to (B) EDIII or (C) E-dimer (SD).**