

A potent anti-dengue human antibody preferentially recognizes the conformation of E protein monomers assembled on the virus surface

Guntur Fibriansah^{1,2*}, Joanne L. Tan^{1,2*}, Scott A. Smith^{3,4}, A. Ruklanthi de Alwis⁵, Thiam-Seng Ng^{1,2}, Victor A. Kostyuchenko^{1,2}, Kristie D. Ibarra⁶, Jiaqi Wang^{1,2}, Eva Harris⁶, Aravinda de Silva⁵, James E. Crowe, Jr.^{4,7#} and Shee-Mei Lok^{1,2#}

*- These authors contributed equally

#- co-corresponding authors

Addresses:

- (1) Program in Emerging Infectious Diseases, Duke–NUS Graduate Medical School, Singapore.
- (2) Centre for BioImaging Sciences, National University of Singapore, Singapore.
- (3) Department of Medicine, Vanderbilt University, Nashville, TN.
- (4) The Vanderbilt Vaccine Center, Vanderbilt University, Nashville, TN.
- (5) Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, NC.
- (6) Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, CA.
- (7) Departments of Pediatrics and Pathology, Microbiology and Immunology, Vanderbilt University, Nashville, TN.

SUPPLEMENTARY INFORMATION – TABLE OF CONTENT

SUPPLEMENTARY FIGURES AND LEGENDS

Figure S1.	Neutralization activity of HMAb 1F4 on DENV1 (PVP159).	2
Figure S2.	Micrographs showing DENV1 controls and DENV1 complexed with Fab 1F4 at 4°C and 37°C.	3
Figure S3.	An open book representation of the interactions between the E ectodomain (top) with the stem region of E and M proteins (bottom) on DENV1 (Kostyuchenko et al, 2013)	4