

Supplementary Materials for

CD8 T cells contribute to vaccine protection against SARS-CoV-2 in macaques

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The PDF file includes:

Figs. S1 to S6

Other Supplementary Material for this manuscript includes the following:

Data file S1

MDAR Reproducibility Checklist

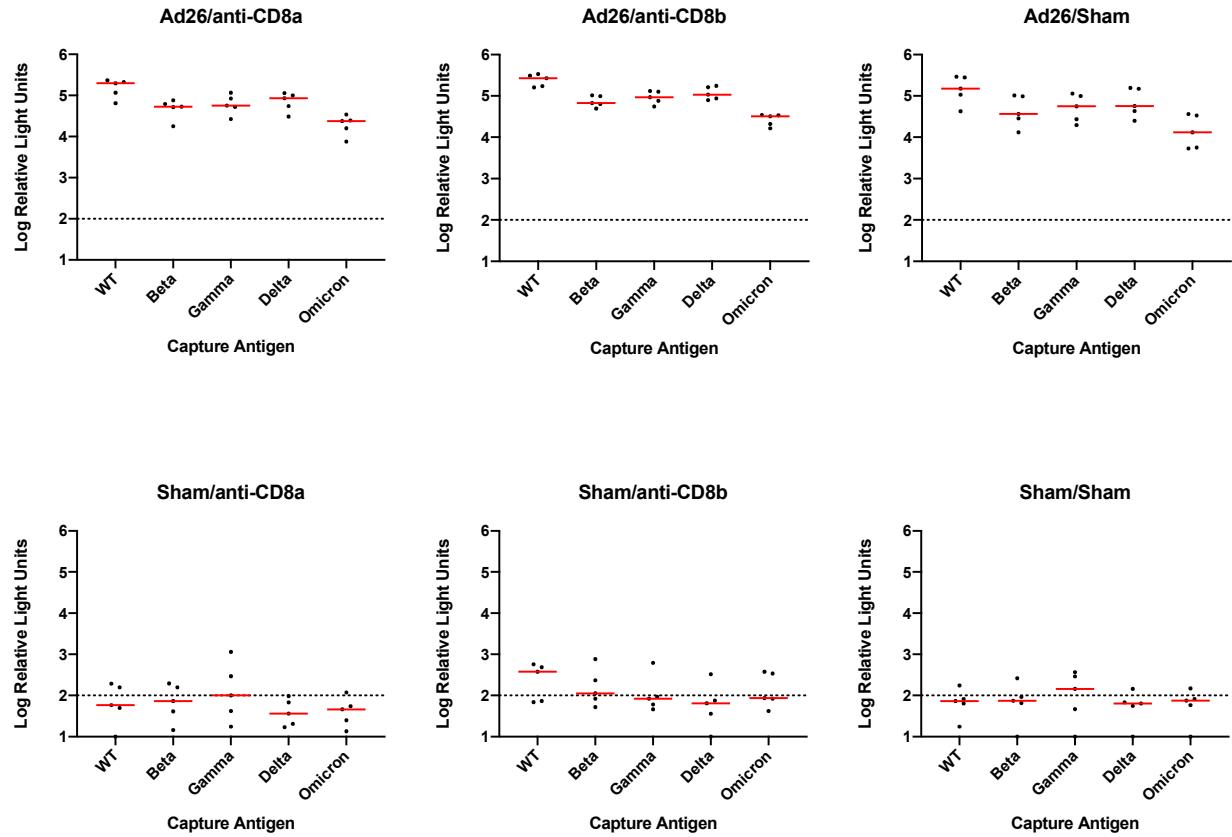


Figure S1. Spike-specific binding antibody responses following vaccination. Spike-specific antibody responses against multiple variants are shown at week 4 following vaccination with the Meso Scale Discovery electrochemiluminescence assay (ECLA). Dotted lines represent limits of quantitation. Medians (red bars) are shown.

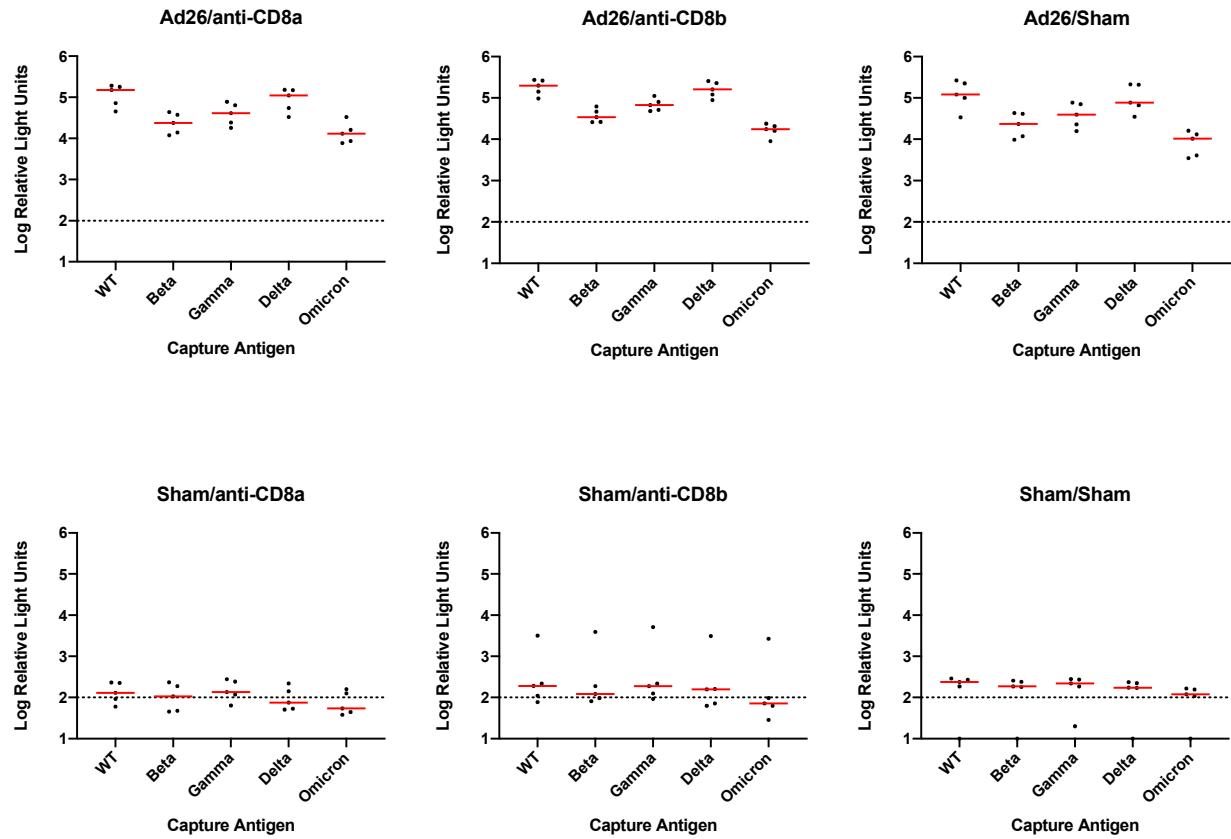


Figure S2. RBD-specific binding antibody responses following vaccination. RBD-specific antibody responses against multiple variants are shown at week 4 following vaccination with the Meso-Scale Discovery electrochemiluminescence assay (ECLA). Dotted lines represent limits of quantitation. Medians (red bars) are shown.

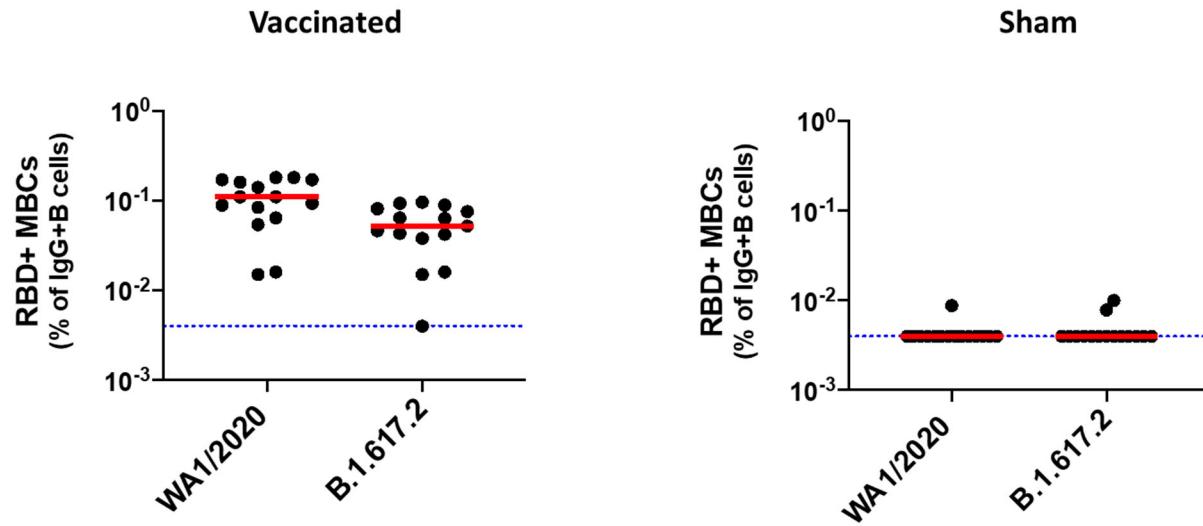


Figure S3. RBD-specific memory B cell responses following vaccination. WA1/2020 and B.1.617.2 (Delta) RBD-specific memory B cell (MBC) responses in peripheral blood at week 4 following vaccination. Dotted lines represent limits of quantitation. Medians (red bars) are shown.

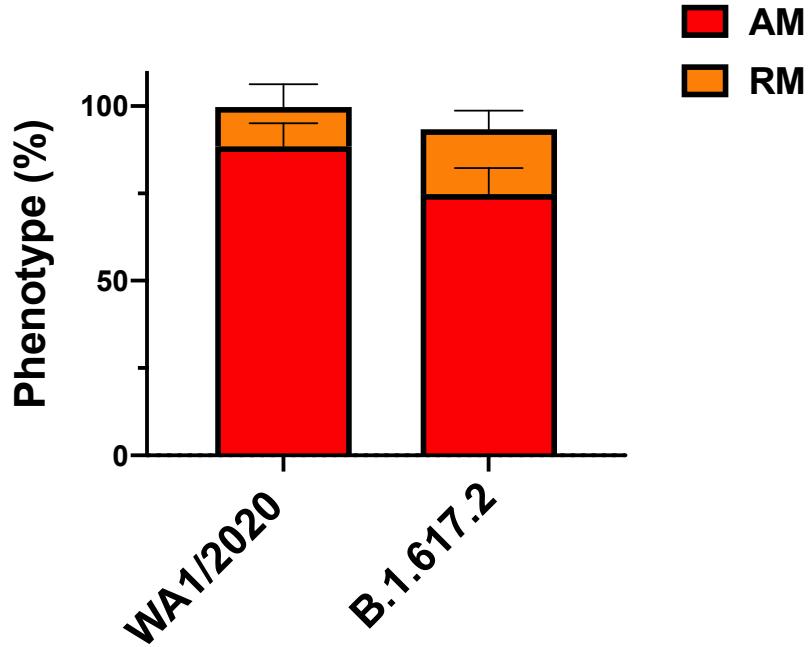


Figure S4. Phenotype of RBD-specific memory B cells following vaccination. Phenotype of WA1/2020 and B.1.617.2 (Delta) RBD-specific memory B cell (MBC) responses in peripheral blood at week 4 following vaccination. Red, activated memory (AM) B cells. Orange, resting memory (RM) B cells.

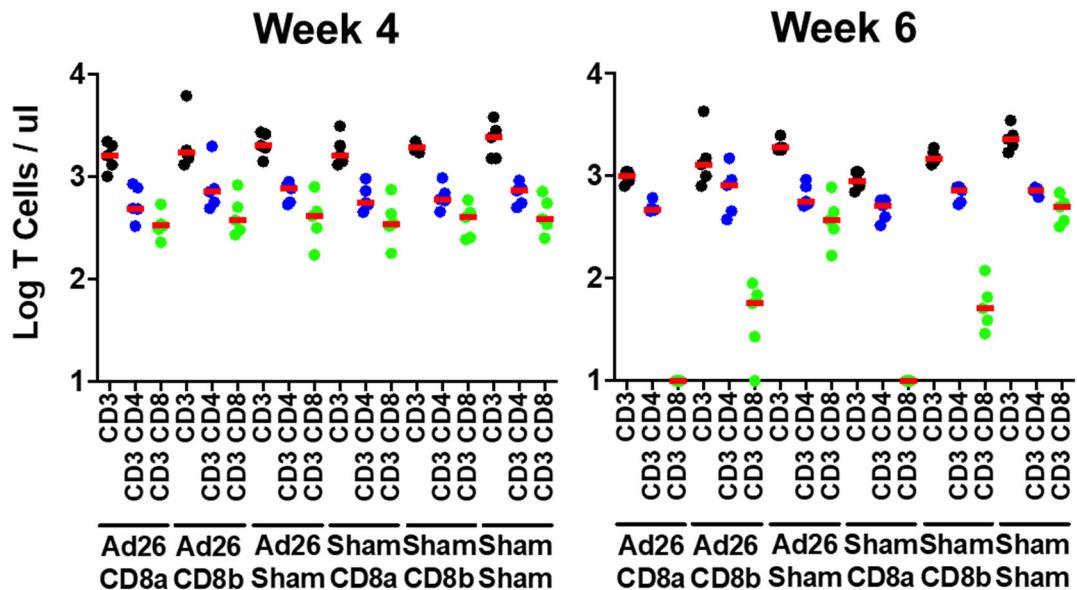


Figure S5. CD8 depletion. CD3⁺, CD8⁺CD3⁺, and CD4⁺CD3⁺ cells in peripheral blood at week 4 prior to CD8 depletion and at week 6 after CD8 depletion. At week 5, we administered 50 mg/kg of the anti-CD8α CDR-grafted rhesus IgG1 antibody (MT807R1) or the anti-CD8β CDR-grafted rhesus IgG1 antibody (CD8b255R1) or an isotype-matched sham mAb (N=5/group) by the intravenous route in the Ad26.COV2.S and the sham vaccinated animals.

Day 2

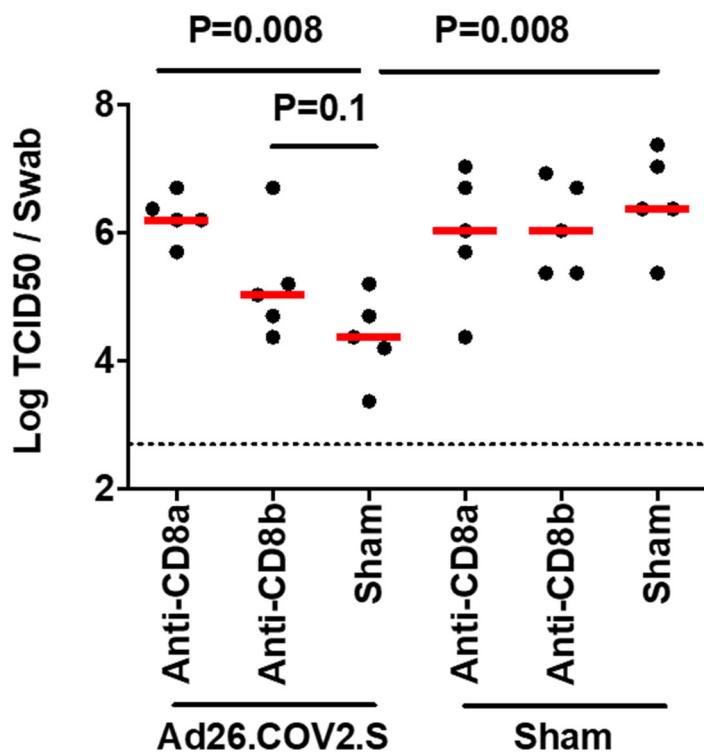


Figure S6. TCID₅₀ titers following SARS-CoV-2 challenge. Log TCID₅₀ copies/swab in nasal swabs (NS) on day 2 following SARS-CoV-2 Delta challenge. Medians (red lines) are shown.