

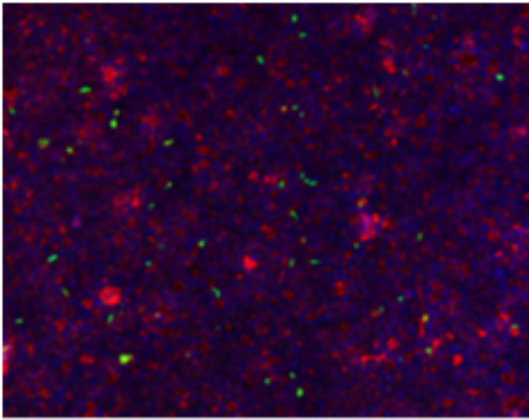
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2 **Supplement data**

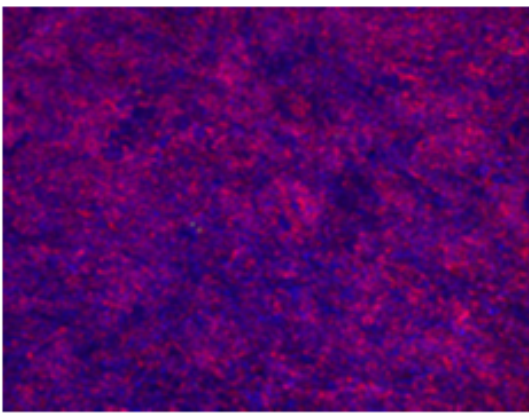
3 Figure. S1. Apical RV infection in ileum enteroid monolayer culture and neutralization by VP8*
4 mAbs 4 or 11

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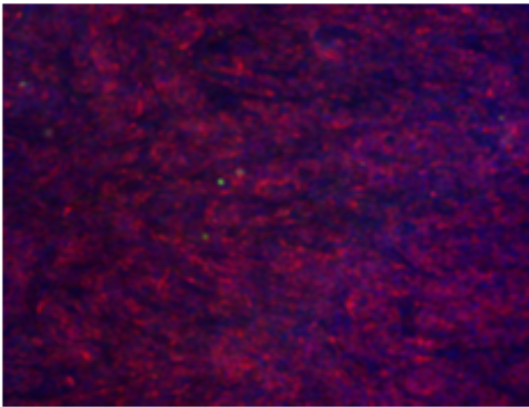
A.



B.



C.



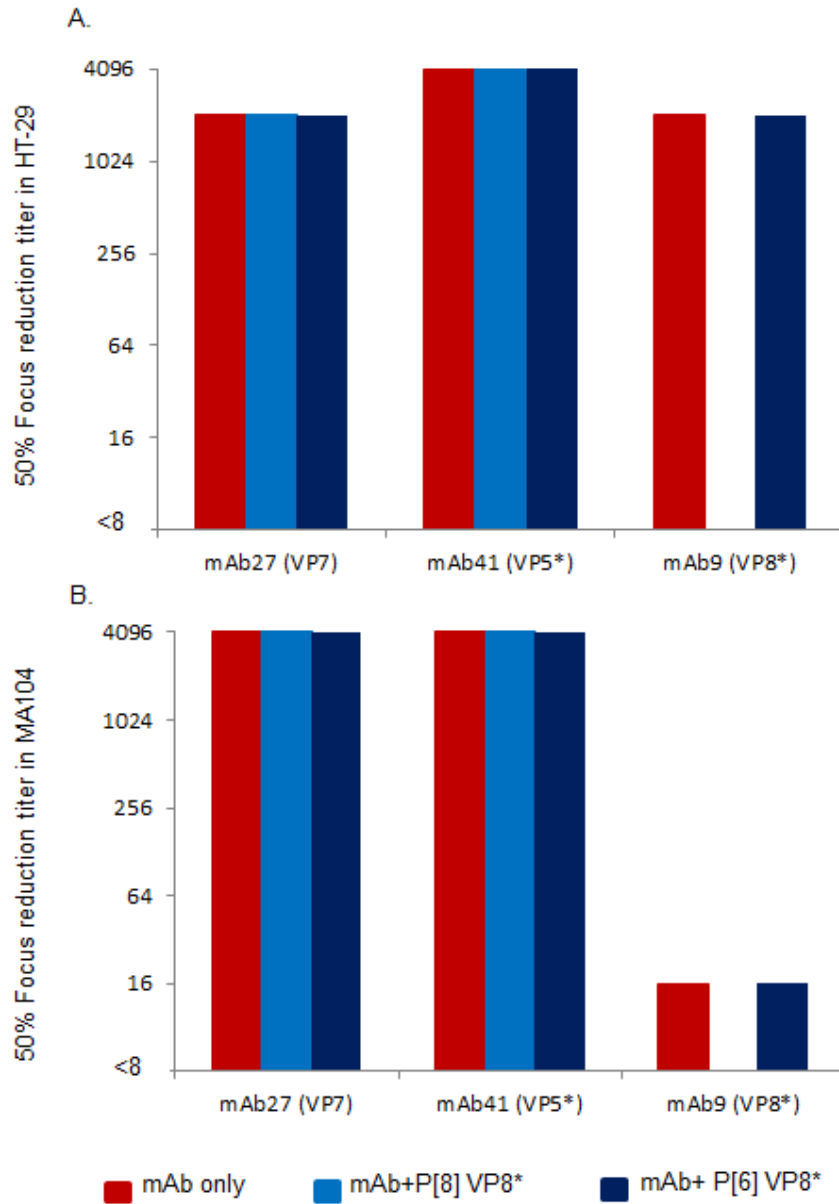
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1 Figure. S2. The effects of additional soluble P[8] or P[6] VP8* on neutralizing titers of selected
2 VP7, VP5* and VP8* mAbs

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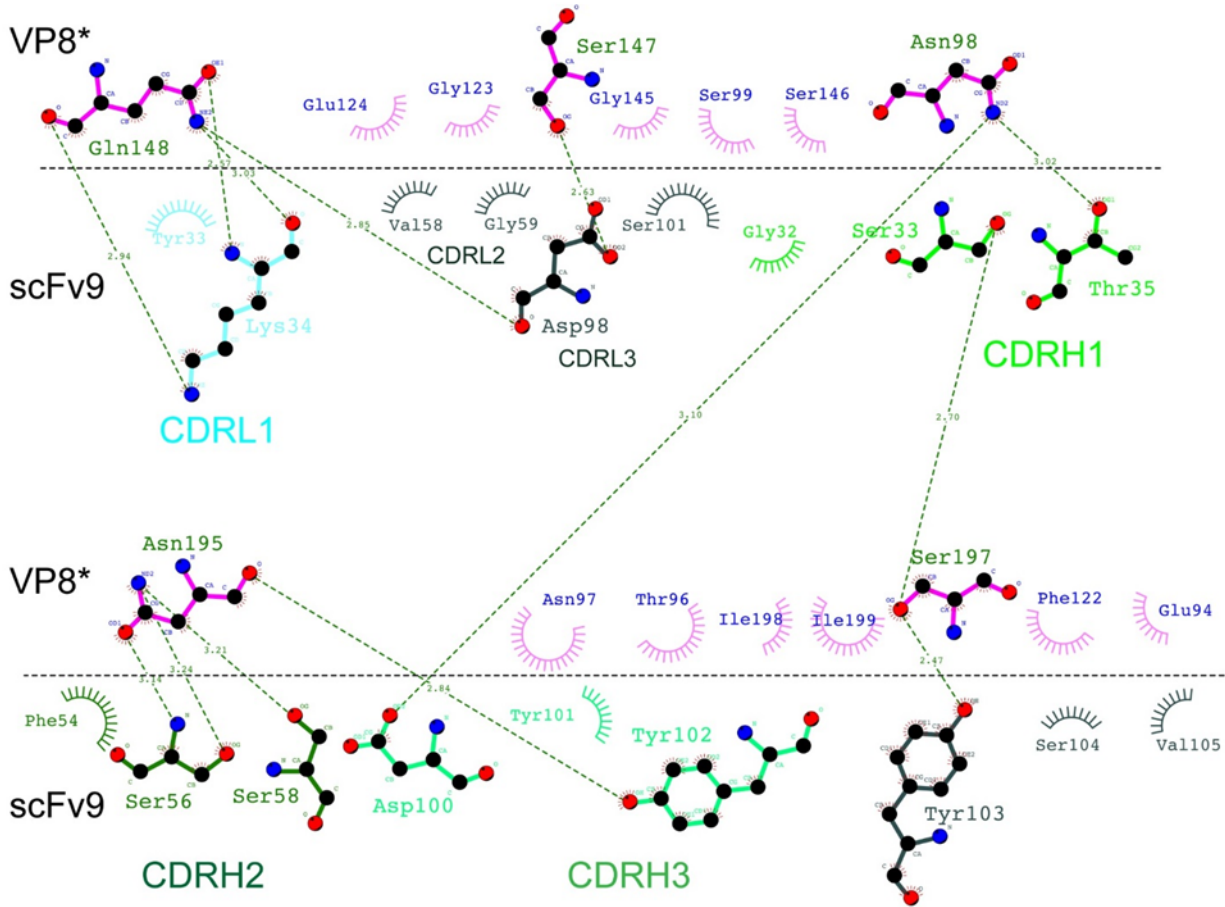
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1 Figure. S3. The detailed molecular interactions between scFv9 and P[4] VP8* were analyzed
2 using LigPlot+ v.2.1. (57).

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Table S1. Data Collection and Refinement Statistics for scFv9/P[4] VP8*

Data collection	
Wavelength (Å)	0.97741
Space group	14 ₂ 2
Unit cell	
a, b, c (Å)	182.4, 182.4, 193.8
α , β , γ (°)	90.0, 90.0, 90.0
Resolution (Å)	35.0 - 2.40 (2.44 - 2.40)
Completeness (%)	99.5 (99.5)
Redundancy	13.0 (12.6)
No. of total reflections	63500
I/σ	10.8 (2.3)
R_{merge}	22.0 (115.0)
R_{pim}	7.8 (34.2)
Refinement statistics	
Resolution (Å)	35.0 - 2.40
No. reflections total/Rfree	63183/3157
Rwork (%) / Rfree (%)	18.62/23.73
RMSD bond length (Å)	0.003
RMSD bond angles (°)	0.713
No. of atoms	9765
Wilson B-value (Å ²)	37.7
B-factor (Å)	
Protein	44.13
Ligand	75.26
Solvent	41.74
Ramachandran (%)	
Favored	97.7
Allowed	2.05
Outliers	0.25
MolProbity clashscore	4.97
PDB ID	XXXX

Values in parentheses are for the highest resolution shell.