Supplementary information

Antibody prophylaxis may mask subclinical SIV infections in macaques

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18 Supplementary Table 1. Study mAb neutralization IC50 and IC80 titers against SIV isolates

Neutralization curves are shown in Extended Fig. 1A.

			Vii	rus			
	SIVsmE660.A8.CP3C			SIVsmE660.2A5.CR54		SIVmac239	
mAb	IC50	IC80	IC50	IC80	IC50	IC80	
ITS01	0.013	0.046	0.154	>50	>50	>50	
ITS06.02	0.016	>50	>50	>50	>50	>50	
ITS102.03	0.072	0.244	0.228	0.879	0.867	3.0	
ITS103.01	0.015	0.052	0.017	0.052	0.007	0.022	

Supplementary Table 2. Control group barcode sequencing

Barcodes are colored according to legend in Fig. 4A.

Animal	Plasma timepoint (Days post first challenge)	Dominant barcode
	18	А
B1-1	28	Α
	42	Α
	18	Α
B1-2	28	А
	42	Α
	18	Α
B1-3	28	Α
	42	Α
	18	Α
B1-4	28	Α
	42	Α

Supplementary Table 3. ITS102.03 group barcode sequencing

Barcodes are colored according to legend in Fig. 4A.

Animal	Plasma timepoint (Days post first challenge)	Dominant barcode	Other barcodes and abundance (percent of total reads)
DO 4	18	А	
B2-1	21	Α	
	21	В	
DO O	32	В	
B2-2	39	В	
	42	В	
B2-3	21	Α	
D2 4	21	В	
B2-4	32	В	
	18	В	
B2-5	21	В	
	32	В	C(0.02)
B2-6	21	Α	
D∠-0	32	Α	

Supplementary Table 4. ITS103.01 group barcode sequencing

Barcodes are colored according to legend in Fig. 4A. "N/R" indicates that no barcode sequences were able to be recovered at a given timepoint.

Animal	Plasma timepoint (Days post first challenge)	Dominant barcode	Other barcodes and abundance (percent of total reads)		
	46	G			
	49	G			
	53	G			
B3-1	56	G	H(0.5)		
20 .	60	G	H(0.08), A(0.01)		
	63	G	H(0.1)		
	67	G	H(0.07)		
	35	N/R	11(0.07)		
	63	N/R			
	71	A	E(20)		
B3-2	77	A	B(0.038)		
	77	A	B(0.023)		
	84	A	B(0.037)		
	49	N/R	2(0.00.)		
	67	Α			
	71	A	1(0.04)		
B3-3	74	A			
	77	Α			
	81	Α			
	84	Α			
	35	F			
	56	Н			
	67	Н			
DO 4	63	Н	I (0.0015)		
B3-4	67	Н			
	71	Н			
	74	Н			
	77	Н			
	35	N/R			
	67	Α			
	67	Α			
B3-5	71	Α	G(0.001)		
	74	Α			
	77	Α			
	81	Α			
	35	N/R			
B3-6	60	I	A(12)		
50 0	67	I	A(16)		
	71	1	A(39), F(0.0026), E(0.0008)		

Supplementary Table 5. Partially/fully neutralizing mAb infusion and challenge study animal demographics

M = male, F = female. Age and weight were recorded at the start of the study. "TFP" denotes TRIM5 alleles 1–5, "Q" denotes alleles 6–11, and "Cyp" indicates allele 12¹. Animals that expressed MHC alleles (associated with control of virus replication².³) Mamu-A*01, Mamu-B*08, or Mamu-B*17 are denoted by "+" signs.

				Trim5a			
Animal	Sex	Age (years)	Weight (kg)	genotype	Mamu-A*01	Mamu-B*08	Mamu-B*17
G1-1	М	2.6	4.50	TFP/TFP	_	_	_
G1-2	М	4.6	6.44	TFP/Q	_	_	+
G1-3	М	4.7	6.70	TFP/Q	-	_	_
G1-4	М	5.0	7.80	TFP/Q	-	_	_
G1-5	М	2.7	4.26	TFP/TFP	-	_	+
G1-6	F	5.0	6.77	Q/Cyp	_	_	
G2-1	М	5.0	7.14	Q/Q	_	_	_
G2-2	М	4.6	6.46	TFP/Q	_	_	_
G2-3	М	5.0	8.56	TFP/TFP	_	_	_
G2-4	М	4.7	8.84	TFP/Q	_	-	_
G2-5	М	5.0	5.84	TFP/Q	-	-	_
G2-6	F	5.0	4.76	TFP/TFP	_	_	
G3-1	М	4.7	8.56	TFP/TFP	_	_	_
G3-2	М	4.8	8.00	TFP/Q	_	_	_
G3-3	М	4.8	7.50	TFP/Q	_	_	+
G3-4	М	3.0	4.08	TFP/Q	+	-	-
G3-5	F	5.0	7.46	TFP/TFP	_	_	-
G3-6	F	5.0	7.40	Q/Q	_	_	-
G4-1	М	5.0	8.26	TFP/Q	_	_	_
G4-2	М	4.7	7.04	TFP/Q	-	_	-
G4-3	М	5.0	9.92	TFP/Q	_	-	_
G4-4	М	5.0	7.86	TFP/TFP	-	-	-
G4-5	М	3.0	4.20	TFP/Q	_	_	_
G4-6	F	4.7	5.92	TFP/Q	_	_	
G5-1	М	4.8	8.78	TFP/Q	_	_	_
G5-2	М	2.8	5.10	TFP/Q	_	_	
G5-3	М	4.6	7.96	TFP/Q	-	_	+
G5-4	М	5.0	7.62	TFP/Q	_	_	+
G5-5	М	5.0	7.60	TFP/TFP		_	
G5-6	F	5.0	5.58	TFP/Q	_	+	

Supplementary Table 6. Barcoded virus challenge study animal demographics

M = male, F = female. Age and weight were recorded at the start of the study.

Animal	Sex	Age (years)	Weight (kg)
B1-1	М	2.8	3.62
B1-2	М	2.7	3.82
B1-3	М	2.9	3.9
B1-4	М	2.7	4.54
B2-1	М	2.8	3.76
B2-2	М	2.8	3.62
B2-3	М	3.0	5.08
B2-4	М	3.0	3.92
B2-5	М	2.5	3.7
B2-6	М	2.7	4.18
B3-1	М	2.6	3.66
B3-2	М	2.9	4.92
B3-3	М	2.9	4.02
B3-4	М	3.0	4.0
B3-5	М	2.8	3.72
B3-6	М	2.8	3.88

44 References

- Lim, S. Y. et al. TRIM5α Modulates Immunodeficiency Virus Control in Rhesus Monkeys.
 PLoS pathogens 6, e1000738 (2010).
- Zhang, Z. Q. *et al.* Mamu-A*01 allele-mediated attenuation of disease progression in simian-human immunodeficiency virus infection. *J Virol* **76**, 12845-12854 (2002). https://doi.org/10.1128/jvi.76.24.12845-12854.2002
- 50 3 Martins, M. A. *et al.* Mamu-B*17(+) Rhesus Macaques Vaccinated with env, vif, and nef 51 Manifest Early Control of SIVmac239 Replication. *J Virol* **92** (2018).