Table 1: **p17**

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
1	32/5.8.42	p17(12-19 + 100-105 IIIB)	p17	ELDRWEKI + ALDKIE	N	Viral lysate	murine(IgG)
	References: [Papsidero et al.(1989)]						
	NOTES:						
	• 32/5.8.42: Inhibited infectivity of cell free virus – bound to both peptides, ELDRWEKI and ALDKIE [Papsidero et al.(1989)]						
2	L14.17	p17(11-25 BRU)	p17(11-25)	GELDRWEKIRLRPGG	N	Inactivated BRU	murine(IgG)
	References: [Tatsumi et al.(1990), Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]						
3	HyHIV-4	p17(12-29 JMH1)	p17(12-29)	ELDKWEKIRLRPGGKTLY	N	rec p17	murine(IgG_1)
	References: [Ota et al.(1998)]						
	NOTES:						
	• HyHIV-4: epitope uncertain, based on the best estimate from JMH1 sequence– $K_A$is $1.8 \times 10^7 M^{-1}$ for rec p17 – stains the surface of infected cells indicating the antigen is exposed at the cell surface [Ota et al.(1998)]						
4	32/1.24.89	p17(17-22 IIIB)	p17(17-22)	EKIRLR	N	Viral lysate	murine(IgG)
	References: [Papsidero et al.(1989)]						
	NOTES:						
	• 32/1.24.89: Inhibited infectivity of cell free virus [Papsidero et al.(1989)]						
5	3E11	p17(19-38 SIVmac)	p17(19-38)	IRLPGGKKKYMLKHVV-WAA	N	Inact AGMTYO-7	murine(IgG_1)
	References: [Otteken et al.(1992), Nilsen et al.(1996)]						
	NOTES:						
	• 3E11: There is another MAb with this ID that recognizes integrase [Nilsen et al.(1996)]						
	• 3E11: recognized an epitope present on HIV-2/SIVmac (MAC251/32H), SIVagm, HIV-1, and SIVmnd, demonstrating that the matrix protein of all nine HIV and SIV isolates tested in this study expresses at least one highly conserved immunogenic epitope [Otteken et al.(1992)]						

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
6	3B10	p17(19-38 SIVmac)	p17(19-38)	IRLPGGKKKYMLKHVV-WAA	N	Inact AGMTYO-7	murine(IgG_1)

References: [Otteken et al.(1992)]
NOTES:
- 3B10: recognized an epitope present on HIV-2/SIVmac (MAC251/32H) , SIVagm, HIV-1, and SIVmnd, demonstrating that the matrix protein of all nine HIV and SIV isolates tested in this study expresses at least one conserved immunogenic epitope recognized serologically [Otteken et al.(1992)]

7	HyHIV-21	p17(30-52 JMH1)	p17(30-52)	KLKHIIWASRELERFAV-NPGLLE	N	rec p17	murine(IgG_{2a})

References: [Ota et al.(1998)]
NOTES:
- HyHIV-21: epitope uncertain, based on the best estimate from JMH1 sequence – K_A is $3.6 \times 10^6 M^{-1}$ for rec p17 – stains the surface of infected cells indicating the antigen is exposed at the cell surface –inhibited growth of HIV-1 JMH1 in MT-4 cells when added 24 hours after the initial culture [Ota et al.(1998)]

8	HyHIV-22	p17(53-87 JMH1)	p17(52-87)	ETSEGCRQILGQRQPSL-QTGSEELRSLYNTIH	N	rec p17	murine(IgG_1)

References: [Ota et al.(1998)]
NOTES:
- HyHIV-22: epitope uncertain, based on the best estimate from JMH1 sequence – stains the surface of infected cells indicating the antigen is exposed at the cell surface – K_A is $2.3 \times 10^5 M^{-1}$ for rec p17 [Ota et al.(1998)]

9	-B4f8	p17(51-65)	p17(51-65)	LETSEGCRQILGQLQ	N	IIIB lysate	rat(IgG_{2a})

References: [Shang et al.(1991)]
NOTES:
- -B4f8: Did not bind live infected cells, only cells that had been made permeable with acetone [Shang et al.(1991)]

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
10	12H-D3b3	p17(62-78)	p17(62-78)	GQLQPSLQTGSEELRSL	N	IIIB lysate	rat(IgG_{2a})
		References: [Shang et al.(1991)]					
		NOTES:					
		• 12H-D3b3: Did not bind live infected cells, only cells that had been made permeable with acetone [Shang et al.(1991)]					
11	12G-A8g2	p17(86-115)	p17(86-115)	YCVHQRIEIKDTKEALD-KIEEEQNKSKKKA	N	IIIB lysate	rat(IgG_{2a})
		References: [Shang et al.(1991)]					
		NOTES:					
		• 12G-A8g2: Bound to 30-mer, but not to internal peptides – did not bind live infected cells – antigenic domain known as HPG30 [Shang et al.(1991)]					
12	12G-D7h11	p17(86-115)	p17(86-115)	YCVHQRIEIKDTKEALD-KIEEEQNKSKKKA	N	IIIB lysate	rat(IgG_{2a})
		References: [Shang et al.(1991)]					
		NOTES:					
		• 12G-D7h11: Bound to 30-mer, but not to internal peptides – did not bind live infected cells – antigenic domain known as HPG30 [Shang et al.(1991)]					
13	12I-D12g2	p17(86-115)	p17(86-115)	YCVHQRIEIKDTKEALD-KIEEEQNKSKKKA	N	IIIB lysate	rat(IgG_{2a})
		References: [Shang et al.(1991)]					
		NOTES:					
		• 12I-D12g2: Bound to 30-mer, but not to internal peptides – did not bind live infected cells – antigenic domain known as HPG30 [Shang et al.(1991)]					
14	12G-H1c7	p17(86-115)	p17(86-115)	YCVHQRIEIKDTKEALD-KIEEEQNKSKKKA	N	IIIB lysate	rat(IgG)
		References: [Shang et al.(1991)]					
		NOTES:					
		• 12G-H1c7: Bound to 30-mer, but not to internal peptides – did not bind live infected cells – antigenic domain known as HPG30 [Shang et al.(1991)]					

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
15	polyclonal	p17(86-115)	p17(86-115)	YSVHQRIDVKDTKEALE-KIEEEQNKSKKKA	L	peptide, oral, cholera toxin adjuvant	murine(IgA)
		References: [Bukawa et al.(1995)] **NOTES:** • Polyclonal secretory IgA antibody raised by mucosal immunization is able to neutralize IIIB, SF2, and MN – HIV-1 neutralization may be due to the V3, CD4 or HPG30 component of the multicomponent peptide immunogen [Bukawa et al.(1995)]					
16	HyHIV-15	p17(87-115 JMH1)	p17(87-115)	?	N	rec p17	murine(IgG_1)
		References: [Ota et al.(1998)] **NOTES:** • HyHIV-15: epitope uncertain, based on the best estimate from JMH1 sequence – K_A is $1.4 \times 10^7 M^{-1}$ for rec p17 – stains the surface of infected cells indicating the antigen is exposed at the cell surface – inhibited growth of HIV-1 JMH1 in MT-4 cells when added 24 hours after the initial culture [Ota et al.(1998)]					
17	32/5.8.42	p17(12-19 + 100-105 IIIB)	p17	ELDRWEKI + ALDKIE	N	Viral lysate	murine(IgG)
		References: [Papsidero et al.(1989)] **NOTES:** • 32/5.8.42: Inhibited infectivity of cell free virus – bound ELDRWEKI and ALDKIE [Papsidero et al.(1989)]					
18	11H9	p17(101-115 SF2)	p17(101-115)	?	N	Inact CBL-1	murine(IgG_1)
		Donor: R. B. Ferns and R. S. Tedder **References:** [Ferns et al.(1987), Ferns et al.(1989)] **NOTES:** • 11H9: Reactive against p18 and p55 [Ferns et al.(1987)] • 11H9: UK Medical Research Council AIDS reagent: ARP344					
19	C5126	p17(113-122 HXB2)	p17(113-122)	KKAQQAAADT	N	Inact HIV lysate	murine($IgG_{1\kappa}$)
		Donor: R. B. Ferns and R. S. Tedder **References:** [Hinkula et al.(1990)] **NOTES:** • C5126: Defined by peptide blocking of binding to native protein – WB reactive with p53 and p17 [Hinkula et al.(1990)]					

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
20	3-H-7	p17(113-122 BH10)	p17(113-122)	KKAQQAAADT	N	IIIB	murine(IgG)

Donor: R. B. Ferns and R. S. Tedder
References: [Niedrig et al.(1989), Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a), Levin et al.(1997)]
NOTES:
- 3-H-7: Also called 3H7
- 3-H-7: No cross-reactivity with HIV-2 ROD or SIV MAC by immunoblot [Niedrig et al.(1989)]
- 3-H-7: Called 3H7 – using a bicistronic vector, an intracellular Fab intrabody, 3H7, can inhibit HIV-1 infection when expressed in the cytoplasm of dividing CD4+ T cells – HXBIIIB and SI primary isolate virions from 3H7 expressing cells were far less infectious – 3H7 intrabody acts both at the stage of nuclear import and virus particle assembly [Levin et al.(1997)]

21	31-11	p17(121-132 BRU)	p17(121-132)	DTGHSSQVSQNY	N	BRU	murine(IgG)

Donor: R. B. Ferns and R. S. Tedder
References: [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]

22	15-21	p17(121-132 BRU)	p17(121-132)	DTGHSSQVSQNY	N	BRU	murine(IgG)

Donor: R. B. Ferns and R. S. Tedder
References: [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]

23	4H2B1	p17(121-134 SF2)	p17(119-132)	AAGTGNSSQVSQNY?	N	Inact CBL-1	murine(IgG_1)

Donor: R. B. Ferns and R. S. Tedder
References: [Ferns et al.(1987), Ferns et al.(1989)]
NOTES:
- 4H2B1: Reactive against p18 and p55 of multiple isolates [Ferns et al.(1987)]
- 4H2B1: UK Medical Research Council AIDS reagent: ARP315

24	1D9	p17(121-134 SF2)	p17(119-132)	AAGTGNSSQVSQNY?	N	Inact CBL-1	murine(IgG_{2a})

Donor: R. B. Ferns and R. S. Tedder
References: [Ferns et al.(1987), Ferns et al.(1989)]
NOTES:
- 1D9: Reactive against p18, but not p55 [Ferns et al.(1987)]
- 1D9: UK Medical Research Council AIDS reagent: ARP316

25	4C9	p18(121-134 SF2)	p17(119-132)	AAGTGNSSQVSQNY?	N	Inact CBL-1	murine(IgG_{2a})

Donor: R. B. Ferns and R. S. Tedder
References: [Ferns et al.(1987), Ferns et al.(1989)]
NOTES:
- 4C9: Reactive against p18, but not p55 [Ferns et al.(1987)]
- 4C9: UK Medical Research Council AIDS reagent: ARP342

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
26	9G5	p17(121-134 SF2)	p17(119-132)	AAGTGNSSQVSQNY?	N	Inact CBL-1	murine(IgM)

Donor: R. B. Ferns and R. S. Tedder
References: [Ferns et al.(1987), Ferns et al.(1989)]
NOTES:
- 9G5: Reactive against p18, but not p55 [Ferns et al.(1987)]
- 9G5: UK Medical Research Council AIDS reagent: ARP343

27	CH9B2	p17	p17	?	N	Inact CBL-1	murine(IgG_1)

Donor: R. B. Ferns and R. S. Tedder
References: [Ferns et al.(1987), Ferns et al.(1989)]
NOTES:
- CH9B2: Reactive against p18 and p55 [Ferns et al.(1987)]
- CH9B2: UK Medical Research Council AIDS reagent: ARP349

28	G11G1	p17	p17	?	N	?	rat

Donor: R. B. Ferns and R. S. Tedder
References: [Shang et al.(1991), Pincus et al.(1996)]
NOTES:
- G11G1: Immunotoxins were generated by linking Env MAbs to ricin A – immunotoxins mediated cell killing, but only if the antigen was expressed at the cell surface – ricin-G11G1 did not mediate cell killing [Pincus et al.(1996)]

29	2A6	p17	p17	?	N	?	

Donor: A. O. Arthur, Frederick Cancer Research and Development Center, Frederick, MD
References: [Pincus et al.(1998)]
NOTES:
- 2A6: Part of a panel of 17 MAbs used as controls testing for the dual specificity of MAb G11H3 for both p17 and mycoplasma [Pincus et al.(1998)]

30	G11H3	p17(dis)	p17(dis)	DISCONTINUOUS	N	?	

Donor: A. O. Arthur, Frederick Cancer Research and Development Center, Frederick, MD
References: [Shang et al.(1991), Pincus et al.(1998)]
NOTES:
- G11H3: This MAb is cross-reactive between p17 and mycoplasma – this antibody binds strain specifically to the variable lipoprotein (Vlp) F of *M. hyorhinis*, in the region of the carboxy-terminal repeat CGGSTPTPEQGNNQG-GSTPTPEQGNSQVSK – the p17 epitope is discontinuous, but p17 and VlpF share the tetrapeptideSQVS [Pincus et al.(1998)]

	MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
31	HyHIV-19	p17(dis JMH1)	p17(dis)	DISCONTINUOUS	N	rec p17	murine(IgG_1)

Donor: A. O. Arthur, Frederick Cancer Research and Development Center, Frederick, MD

References: [Ota et al.(1998)]

NOTES:

- HyHIV-19: Does not react with p17 peptides – K_A is $3.7 \times 10^6 M^{-1}$ for rec p17 – inhibited growth of HIV-1 JMH1 in MT-4 cells when added 24 hours after the initial culture [Ota et al.(1998)]