

Table 5: **Integrase**

Mab ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
164 IC4	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]					
	<b>NOTES:</b>					
	<ul style="list-style-type: none"> <li>• IC4: Mab interferes with integrase binding to DNA [Haugan et al.(1995)]</li> <li>• IC4: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>					
165 2C11	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Nilsen et al.(1996)]					
	<b>NOTES:</b>					
	<ul style="list-style-type: none"> <li>• 2C11: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>					
166 2E3	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Nilsen et al.(1996), Ovod et al.(1992)]					
	<b>NOTES:</b>					
	<ul style="list-style-type: none"> <li>• 2E3: There are two MAbs called 2E3 – the other one binds to Nef [Ovod et al.(1992)]</li> <li>• 2E3: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>					

## HIV Monoclonal Antibodies

Mab ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
167 3E11	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Otteken et al.(1992), Nilsen et al.(1996)]</p> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 3E11: There is another Mab with this ID that recognizes p17 [Otteken et al.(1992)]</li> <li>• 3E11: Recognized an epitope present on HIV-2/SIVmac, SIVagm, HIV-1, and SIV/md [Otteken et al.(1992)]</li> <li>• 3E11: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>						
168 3F9	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Nilsen et al.(1996)]</p> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 3F9: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>						
169 5F8	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]</p> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 5F8: There is another Mab with this ID that recognizes and unknown protein in HIV [Pinter et al.(1995)]</li> <li>• 5F8: Mab interferes with integrase binding to DNA [Haugan et al.(1995)]</li> <li>• 5F8: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>						

## HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
170 6G5	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Nilsen et al.(1996)]					
	<b>NOTES:</b>					
	<ul style="list-style-type: none"> <li>6G5: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>					
171 7B6	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Nilsen et al.(1996)]					
	<b>NOTES:</b>					
	<ul style="list-style-type: none"> <li>7B6: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>					
172 7C6	IN(1-16 HXB2)	RT(716-731)	FLDGDIDKAQDEHEKYYH?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Nilsen et al.(1996)]					
	<b>NOTES:</b>					
	<ul style="list-style-type: none"> <li>7C6: One of a large set of MAbs that interact with the N-terminal part of integrase: 1C4, 2C11, 2E3, 3E11, 3F9, 5F8, 6G5, 7B6, 7C6 – these MAbs inhibit end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>					
173 6C5	IN(17-38 HXB2)	RT(732-753)	SNWRAMASDFENLPPVVA- KEIVA?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]					
	<b>NOTES:</b>					
	<ul style="list-style-type: none"> <li>6C5: MAb interferes with integrase binding to DNA [Haugan et al.(1995)]</li> <li>6C5: This MAb inhibits end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> </ul>					

## HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
174 8G4	IN(22-31 + 82-101 HXB2)	RT	MASDENLPPV + GYIE-AEVIPAETGQETAYFI?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]  <b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 8G4: This MAb reacted strongly with peptides IN(12-31) and IN(22-42), and less strongly with peptide IN(82-101) – it did not react with a deletion mutant of positions 17-38 – this MAb inhibits end processing and DNA joining, but had little effect on integration activities [Nilsen et al.(1996)]</li> <li>• 8G4: MAb interferes with integrase binding to DNA [Haugan et al.(1995)]</li> </ul>					
175 4D6	IN(42-55 HXB2)	RT(757-770)	KCQLKGEAMHGQVD?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]  <b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 4D6: This MAb inhibits end processing and DNA joining, and reduces reintegration activity [Nilsen et al.(1996)]</li> <li>• 4D6: MAb interferes with integrase binding to DNA [Haugan et al.(1995)]</li> </ul>					
176 4F6	IN(56-102 HXB2)	RT(771-817)	CSPGIWQLDCTHLEGK-VILVAVHVASGYIEAEV-IPAETGQETAYFLL?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]  <b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 4F6: MAb binding had minimal effects on IN <i>in vitro</i> activities [Nilsen et al.(1996)]</li> <li>• 4F6: MAb interferes with integrase binding to DNA [Haugan et al.(1995)]</li> </ul>					
177 5D9	IN(186-250 HXB2)	RT(901-965)	?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
	<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Nilsen et al.(1996)]  <b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 5D9: MAb binding had minimal effects on IN <i>in vitro</i> activities [Nilsen et al.(1996)]</li> <li>• 5D9: White C-term and N-term anti-Integrase MAbs interfere with Integrase-DNA binding, 5D9 which binds more centrally, does not [Haugan et al.(1995)]</li> </ul>					

## HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
178 8E5	IN(262-271 HXB2)	RT(977-986)	RRKAKIIRDY?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]</p> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 8E5: A set of three MAbs recognize an epitope in this region, 7C3, 7F11, and 8E5 – all three HIV-1 MAbs cross-react with HIV-2 IN – these MAbs inhibit end-processing, DNA joining and reintegration, and had little effect on disinegration [Nilsen et al.(1996)]</li> <li>• 8E5: MAb interferes with integrase binding to DNA [Haugan et al.(1995)]</li> </ul>						
179 7C3	IN(262-271 HXB2)	RT(977-986)	RRKAKIIRDY?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Haugan et al.(1995), Nilsen et al.(1996)]</p> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 7C3: A set of three MAbs recognize an epitope in this region, 7C3, 7F11, and 8E5 – all three HIV-1 MAbs cross-react with HIV-2 IN – these MAbs inhibit end-processing, DNA joining and reintegration, and had little effect on disinegration [Nilsen et al.(1996)]</li> <li>• 7C3: MAb interferes with integrase binding to DNA [Haugan et al.(1995)]</li> </ul>						
180 7F11	IN(262-271 HXB2)	RT(977-986)	RRKAKIIRDY?	N	bacterial expressed integrase	murine(IgG <sub>1<math>\kappa</math></sub> )
<p><b>Donor:</b> B. Ferns and R. Tedder  <b>References:</b> [Lasky et al.(1987), Nilsen et al.(1996)]</p> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• 7F11: There is another MAb with this name that binds to gp120 [Lasky et al.(1987)]</li> <li>• 7F11: A set of three MAbs recognize an epitope in this region, 7C3, 7F11, and 8E5 – all three HIV-1 MAbs cross-react with HIV-2 IN – these MAbs inhibit end-processing, DNA joining and reintegration, and had little effect on disinegration [Nilsen et al.(1996)]</li> </ul>						

## HIV Monoclonal Antibodies

Mab ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
181 Mab 35	IN(?264-273) <b>Donor:</b> ? <b>References:</b> [Barsov et al.(1996), Acel et al.(1998)]	RT(979-988)	KAKIIRDYGK	N	rec IN	murine(IgG <sub>κ</sub> )
	<b>NOTES:</b> <ul style="list-style-type: none"> <li>• Mab 35: There appears to be two IN Abs with similar names: Mab 35 and 35 [Barsov et al.(1996), Bizub-Bender et al.(1994)]</li> <li>• Mab 35: Although Mab 35 does not inhibit HIV-1 IN, Fab 35 inhibits 3'-end processing, strand transfer and disintegration [Barsov et al.(1996)]</li> <li>• Mab 35: Integrase was shown to have intrinsic DNA polymerase activity that can catalyze gap repair – Mab 35 inhibits this activity [Acel et al.(1998)]</li> </ul>					
182 12	IN(1-58) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994), Levy-Mintz et al.(1996)]	RT		N	rec IN	murine(IgG <sub>2a</sub> )
	<b>NOTES:</b> <ul style="list-style-type: none"> <li>• 12: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – the Zn finger motif is in the binding region – MAbs 12, 13 and 35 form a competition group [Bizub-Bender et al.(1994)]</li> <li>• 12: Used for the creation of single chain variable antibody fragments (SFvs) for internal cellular expression – neutralization of IN activity prior to integration, whether the Ab is expressed in the nucleolus or the cytoplasm – relative binding affinity to IN: 12 &gt; 17 = 33 &gt; 21 &gt; 4 [Levy-Mintz et al.(1996)]</li> </ul>					
183 35	IN(1-58) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994)]	RT		N	rec IN	murine(IgG <sub>2b</sub> )
	<b>NOTES:</b> <ul style="list-style-type: none"> <li>• 35: There appears to be two IN Abs with similar names: Mab 35 and 35 [Barsov et al.(1996), Bizub-Bender et al.(1994)]</li> <li>• 35: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – the Zn finger motif is in the binding region – MAbs 12, 13 and 35 form a competition group [Bizub-Bender et al.(1994)]</li> </ul>					
184 13	IN(1-58) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994)]	RT		N	rec IN	murine(IgG <sub>1</sub> )
	<b>NOTES:</b> <ul style="list-style-type: none"> <li>• 13: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – the Zn finger motif is in the binding region – MAbs 12, 13 and 35 form a competition group [Bizub-Bender et al.(1994)]</li> </ul>					

## HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
185 14	IN(1-58) Donor: ? <b>References:</b> [Bizub-Bender et al.(1994)] <b>NOTES:</b> • 14: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – the Zn finger motif is in the binding region – MAbs 14 and 17 form a competition group [Bizub-Bender et al.(1994)]	RT		N	rec IN	murine(IgG <sub>1</sub> )
186 17	IN(1-58) Donor: ? <b>References:</b> [Bizub-Bender et al.(1994), Levy-Mintz et al.(1996)] <b>NOTES:</b> • 17: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – the Zn finger motif is in the binding region – MAbs 14 and 17 form a competition group [Bizub-Bender et al.(1994)] • 17: Used for the creation of single chain variable antibody fragments (SFvs) for internal cellular expression – neutralization of IN activity prior to integration, whether the Ab is expressed in the nucleolus or the cytoplasm – relative binding affinity to IN: 12 > 17 = 33 > 21 > 4 [Levy-Mintz et al.(1996)]	RT		N	rec IN	murine IgG <sub>1</sub> )
187 21	IN(58-141) Donor: ? <b>References:</b> [Bizub-Bender et al.(1994), Levy-Mintz et al.(1996)] <b>NOTES:</b> • 21: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized [Bizub-Bender et al.(1994)] • 21: Used for the creation of single chain variable antibody fragments (SFvs) for internal cellular expression – neutralization of IN activity prior to integration, whether the Ab is expressed in the nucleolus or the cytoplasm – relative binding affinity to IN: 12 > 17 = 33 > 21 > 4 [Levy-Mintz et al.(1996)]	RT		N	rec IN	murine IgG <sub>2b</sub> )

## HIV Monoclonal Antibodies

Mab ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
188 4	IN(141-172) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994), Levy-Mintz et al.(1996)] <b>NOTES:</b>	RT		N	rec IN	murine IgG <sub>2b</sub> )
	<ul style="list-style-type: none"> <li>• 4: There is another MAb with this ID that reacts with gp41 [Oldstone et al.(1991), Bizub-Bender et al.(1994)]</li> <li>• 4: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – 4 has a low binding affinity [Bizub-Bender et al.(1994)]</li> <li>• 4: Used for the creation of single chain variable antibody fragments (SFvs) for internal cellular expression – neutralization of IN activity prior to integration, whether the Ab is expressed in the nucleolus or the cytoplasm – relative binding affinity to IN: 12 &gt; 17 = 33 &gt; 21 &gt; 4 [Levy-Mintz et al.(1996)]</li> </ul>					
189 19	IN(dis) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994)] <b>NOTES:</b>	RT	DISCONTINUOUS	N	rec IN	murine IgG <sub>1</sub> )
	<ul style="list-style-type: none"> <li>• 19: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – 19 has a low binding affinity [Bizub-Bender et al.(1994)]</li> </ul>					
190 16	IN(dis) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994)] <b>NOTES:</b>	RT	DISCONTINUOUS	N	rec IN	murine IgG <sub>2a</sub> )
	<ul style="list-style-type: none"> <li>• 16: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized [Bizub-Bender et al.(1994)]</li> </ul>					
191 32	IN(259-288) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994)] <b>NOTES:</b>	RT		N	rec IN	murine IgG <sub>2b</sub> )
	<ul style="list-style-type: none"> <li>• 32: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – MAbs 32 and 33 form a competition group [Bizub-Bender et al.(1994)]</li> </ul>					



## HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
192 33	IN(259-288) <b>Donor:</b> ? <b>References:</b> [Bizub-Bender et al.(1994), Levy-Mintz et al.(1996)] <b>NOTES:</b>	RT		N	rec IN	murine IgG <sub>2b</sub> )
	<ul style="list-style-type: none"> <li>• 33: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized – MAbs 32 and 33 form a competition group [Bizub-Bender et al.(1994)]</li> <li>• 33: Used for the creation of single chain variable antibody fragments (SFvs) for internal cellular expression – neutralization of IN activity prior to integration, whether the Ab is expressed in the nucleolus or the cytoplasm – relative binding affinity to IN: 12 &gt; 17 = 33 &gt; 21 &gt; 4 [Levy-Mintz et al.(1996)]</li> </ul>					
193 7C4	RT(dis) <b>Donor:</b> ? <b>References:</b> [Chiba et al.(1997)] <b>NOTES:</b>	RT(dis)	DISCONTINUOUS		rec vaccinia-RT WRRRT	murine(IgG <sub>1</sub> )
	<ul style="list-style-type: none"> <li>• 7C4: Dose-dependent inhibition of polymerase activity of RT of strains IIB, Bru and IMS-1, but not HIV-2 strains GH-1 or LAV-2 or SIV strains MAC or MND [Chiba et al.(1997)]</li> </ul>					
194 3D12	RT(dis) <b>Donor:</b> ? <b>References:</b> [Chiba et al.(1997)] <b>NOTES:</b>	RT	DISCONTINUOUS		rec vaccinia-RT WRRRT	murine(IgG <sub>2a</sub> )
	<ul style="list-style-type: none"> <li>• 3D12: There is an anti-Nef MAb that also has this name (see [Chiba et al.(1997)])</li> </ul>					
195 6B9	RT(dis) <b>Donor:</b> ? <b>References:</b> [Chiba et al.(1997)]	RT	DISCONTINUOUS		rec vaccinia-RT WRRRT	murine(IgG <sub>2a</sub> )
196 3F10	RT(dis) <b>Donor:</b> ? <b>References:</b> [Chiba et al.(1997)]	RT	DISCONTINUOUS		rec vaccinia-RT WRRRT	murine(IgG <sub>2a</sub> )

### HIV Monoclonal Antibodies

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
197 RT-4	RT <b>Donor:</b> ? <b>References:</b> [Li et al.(1993), Gu et al.(1996)] <b>NOTES:</b> • RT-4: Increased nevirapine and delavirdine inhibition, no effect on AZT inhibition [Gu et al.(1996)]	RT	?	N	?	murine(IgG <sub>2b</sub> )
198 anti-HIV-1 RT	RT <b>Donor:</b> ? <b>References:</b> [di Marzo Veronese et al.(1986), Maciejewski et al.(1995), Wainberg & Gu(1995)] <b>NOTES:</b> • anti-HIV-1 RT: Cloned heavy and light chains to express Fab intracellularly, preventing HIV infection <i>in vitro</i> – this MAb was broadly cross-reactive with clinical strains and even HIV-2 [Maciejewski et al.(1995)] • Commentary on Maciejewski et al. [Wainberg & Gu(1995)]	RT	?	?	?	murine(IgG)
199 polyclonal	RT <b>Donor:</b> ? <b>References:</b> [Kim et al.(1997)] <b>NOTES:</b> • A gag/pol, vif or CMN160 DNA vaccine, when delivered in conjunction with the plasmid encoding the co-stimulatory molecules B7 and IL-12, gave a dramatic increase in both the cytotoxic and proliferative responses in mice, as well as Ab response detected by ELISA	RT			DNA gag/pol, vif, and CMN160 vaccine	murine