| MAb ID | HXB2 Location | Author's Location | Sequence | Neutralizing | Immunogen | Species(Isotype) | | | |
|----------------|--|---|-----------------------------------|-----------------------------------|---|-------------------|--|--|--|
| 188 polyclonal | Pol() | p55() | | no | HIV-1 Pr55gag VLP with anchored gp120 or V3+CD4 linear domains | Macaca mulatta() | | | |
| | • A VLP is a non-i VLPs bound to e case, and Ab resp whole gp120, not | References: [Wagner (1998)] A VLP is a non-infectious virus-like particle self-assembled from HIV Pr55 gag – macaques were immunized with VLPs bound to either gp120 or V3+CD4 linear domains – gag and env CTL specific CTL were stimulated in each case, and Ab response to gag and gp120 and was elicited, but the gp120 neutralizing response occurred only with whole gp120, not V3+CD4 – despite the CTL and Ab response, immunized macaques were infected by intervenous challenge with SHIV chimeric challenge stock –Wagner98 | | | | | | | |
| 189 RT7O | Pol() RT(231-315) rRT murine(IgG1) Donor: B. Ferns and R. Tedder References: [Ferns (1991)] References: [Ferns (1991)] end to be active to a pitope located centrally in the protein – inhibited RT enzyme activity and thus may bind close to the active site of the enzyme –Ferns91 enzyme –Ferns91 • RT7O: UK Medical Research Council AIDS reagent: ARP381 • RT981 | | | | | | | | |
| 190 RT7U | | | | WB –Ferns91 | rRT | murine() | | | |
| 191 1C12B1 | | RT(431-521) [991)] ized both p66 and p51 in V dical Research Council Al | | C terminus –Ferns91 | rRT | murine() | | | |
| 192 8G4 | 8G4: This MAb t it did not react v had little effect or | Integrase(22–31 + 82–101 HXB2) (1995), Nilsen (1996)] reacted strongly with pepti with a deletion mutant of p n integration activities –Ni eres with integrase binding | ositions 17–38 – this M lsen96 | YFI? 22-42), and less strongly | | | | | |

Table 8: \mathbf{Pol}

HIV Monoclonal Antibodies

| MAb ID | HXB2 Location | Author's Location | Sequence | Neutralizing | Immunogen | Species(Isotype) | |
|--------|--|---|--|---|-------------------------------------|------------------------|--|
| 193 12 | 12: BALB/c mice the antibodies char group –Bizub-Be 12: Used for the neutralization of | Integrase(1-58) Bender (1994), Levy-Mintz e were immunized with rec aracterized – the Zn finger nder94 e creation of single-chain IN activity prior to integr ffinity to IN: $12 > 17 = 33$ | integrase, hybridoma motif is in the bindin variable antibody fr ation, whether the A | g region – MAbs 12, 13 a agments (SFvs) for inter o is expressed in the nuc | nd 35 form a co nal cellular exp | mpetition ression – | |
| 194 35 | • 35: BALB/c mice | s to be two IN Abs with si were immunized with rec aracterized – the Zn finger | integrase, hybridoma | s expressing anti-integras | e Abs were gene | | |
| 195 13 | Pol() Integrase(1-58) no rec IN murine(IgG1) References: [Bizub-Bender (1994)] - - 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-Bender94 | | | | | | |
| 196 14 | Pol() Integrase(1-58) no rec IN murine(IgG1) References: [Bizub-Bender (1994)] - | | | | | | |
| 197 17 | 17: BALB/c mic and the antibodie group –Bizub-Be 17: Used for the neutralization of | Integrase(1-58) Bender (1994), Levy-Mintz e were immunized with re- s characterized – the Zn fir nder94 e creation of single chain IN activity prior to integr ffinity to IN: $12 > 17 = 33$ | ec integrase, hybrido nger motif is in the bi variable antibody fr ation, whether the A | nding region – MAbs 14 a agments (SFvs) for inter o is expressed in the nuc | nd 17 form a co nal cellular exp | mpetition ression – | |

HIV Monoclonal Antibodies

| MAb ID | HXB2 Location | Author's Location | Sequence | Neutralizing | Immunogen | Species(Isotype) | |
|--------|--|--|--|---|------------------|------------------|--|
| 198 21 | 21: BALB/c mid and the antibodie 21: Used for the neutralization of | Integrase(58-141) Bender (1994), Levy-Mintz ce were immunized with re es characterized –Bizub-Be e creation of single chain TIN activity prior to integra affinity to IN: $12 > 17 = 33$ | c integrase, hybrido nder94 variable antibody fr ation, whether the A | agments (SFvs) for inter b is expressed in the nuc | mal cellular exp | ression – | |
| 199 4 | Pol() Integrase(141-172) no rec IN murine(IgG_{2b}) References: [Bizub-Bender (1994), Levy-Mintz (1996)] 4: There is another MAb with this ID that reacts with gp41 –Oldstone91,Bizub-Bender94 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-Bender94 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 > 17 = 33 > 21 > 4 –Levy-Mintz96 | | | | | | |
| 200 16 | Pol(dis) Integrase(Pol dis) no rec IN murine(IgG _{2a}) References: [Bizub-Bender (1994)] • 16: BALB/c mice were immunized with rec integrase, hybridomas expressing anti-integrase Abs were generated, and the antibodies characterized –Bizub-Bender94 | | | | | | |
| 201 32 | Pol() Integrase(259-288) no rec IN murine(IgG _{2b}) References: [Bizub-Bender (1994)] - 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-Bender94 murine(IgG _{2b}) | | | | | | |
| 202 33 | Pol() Integrase(259-288) no rec IN murine(IgG_{2b}) References: [Bizub-Bender (1994), Levy-Mintz (1996)] 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-Bender94 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 > 17 = 33 > 21 > 4 –Levy-Mintz96 | | | | | | |

HIV Monoclonal Antibodies

| MAb ID | HXB2 Location | Author's Location | Sequence | Neutralizing | Immunogen | Species(Isotype) | | | |
|----------------------|---|--|-----------------------|---------------------------|--|----------------------------|--|--|--|
| 203 7C4 | Pol(dis) | RT(Pol dis) | | | rec vaccinia-RT WRRT | murine(IgG ₁) | | | |
| | • 7C4: Dose-depe | References: [Chiba (1997)] 7C4: Dose-dependent inhibition of polymerase activity of RT of strains IIIB, Bru and IMS-1, but not HIV-2 strains GH-1 or LAV-2 or SIV strains MAC or MND –Chiba97 | | | | | | | |
| 204 3D12 | Pol(dis) | RT(Pol dis) | | | rec vaccinia-RT WRRT | murine(IgG _{2a}) | | | |
| | | References: [Chiba (1997)] 3D12: There is an anti-Nef MAb that also has this name (see –Chiba97) | | | | | | | |
| 205 6B9 | Pol(dis) | RT(Pol dis) | | | rec vaccinia-RT WRRT | murine(IgG _{2a}) | | | |
| | References: [Chiba | References: [Chiba (1997)] | | | | | | | |
| 206 3F10 | Pol(dis) | RT(Pol dis) | | | rec vaccinia-RT WRRT | murine(IgG _{2a}) | | | |
| | References: [Chiba | (1997)] | | | | | | | |
| 207 RT-4 | Pol() References: [Li (199 | RT() | | no | ? | murine(IgG _{2b}) | | | |
| | | nevirapine and delavirdine | inhibition, no effect | t on AZT inhibition –Gu96 | 5 | | | | |
| 208 anti-HIV-1 RT | Pol() | RT() | | | ? | murine(IgG) | | | |
| | References: [di Marzo Veronese (1986), Maciejewski (1995), Wainberg & Gu(1995)] 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 –Maciejewski95 Commentary on Maciejewski <i>et al.</i> –Wainberg95 | | | | | | | | |
| 209 polyclonal | Pol() | RT() | | | DNA gag/pol, vif, and CMN160 vaccine | murine() | | | |
| | References: [Kim (1997)] 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 | | | | | | | | |