

Table of HIV MAbs

| MAB ID | HXB2 Location | Author's Location | Sequence | Neutralizing | Immunogen | Species (Isotype) |
|--------------|---|--------------------|-----------------|--------------|------------------------|----------------------------|
| 128 HyHIV-19 | Gag(dis) References: [Liu (1995), Ota (1998)] • HyHIV-19: Does not react with p17 peptides – K_a is $3.7 \times 10^6 \text{ M}^{-1}$ for rec p17 – inhibited growth of HIV-1 JMH1 in MT-4 cells when added 24 hours after the initial culture [Ota (1998)] | p17(dis JMH1) | | no | rec p17 | murine(IgG ₁) |
| 129 5E2.A3k | Gag(dis) Donor: Biodesign International, Kennebunk, Maine, USA References: [Hochleitner (2000a)] • 5E2.A3k: The Ab binding site was studied with epitope excision (protein is bound in native conformation to immobilized MAb, then digested with proteolytic enzymes) and extraction (protein is digested then allowed to react with Ab), followed by mass spectroscopy, as well as lysine modification – the epitope is discontinuous, but involves the highly conserved N-term proline, and the antibody recognizes SIVs and HIV-2 as well as HIV-1 p24 [Hochleitner (2000a)] | p24(1-158 dis SF2) | | no | | murine(IgG ₁) |
| 130 BC1071 | Gag() Donor: Aalto BioReagents References: [Schonning (1999)] • BC1071: The stoichiometry of MAb neutralization was tested and MAb BC1071 was used in this study for virion quantitation [Schonning (1999)] | p24() | | no | HIV-1 infection | murine() |
| 131 91-6 | Gag() References: [Gorny (1989), Robinson (1990b)] • 91-6: No enhancing activity for HIV-1 IIIB [Robinson (1990b)] • 91-6: NIH AIDS Research and Reference Reagent Program: 1239 | p24(121-240 IIIB) | | no | HIV-1 infection | human(IgG ₁ λ) |
| 132 LH-104-A | Gag(dis) References: [Haaheim (1991)] • LF-104-A: Hexapeptide scans revealed two reactive p24 peptides – cross-competition studies indicated the region 270–286 [Haaheim (1991)] • LH-104-A: UK Medical Research Council AIDS reagent: ARP307 | p24(dis BRU) | DIROGP + QGVGGP | no | 104 amino acid peptide | murine(IgG ₁ κ) |
| 133 EH12E1 | Gag(dis) Donor: R. B. Ferns and R. S. Tedder References: [Ferns (1987), Ferns (1989)] • EH12E1: Reacted with p55 and p24 in WB [Ferns (1987)] • EH12E1: UK Medical Research Council AIDS reagent: ARP313 | p24(Gag dis) | | | Inact CBL-1 | murine(IgG ₁) |

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| 134 LH-104-C | Gag(dis) | p24(dis BRU) | GPKEPF + QGVGGP | no | 104 amino acid peptide | murine(IgG ₃ κ) |
| References: [Haaheim (1991)] | | | | | | |
| <ul style="list-style-type: none"> • LF-104-C: Hexapeptide scans revealed two reactive p24 peptides – cross-competition studies indicated the region 351–373 [Haaheim (1991)] • LH-104-C: UK Medical Research Council AIDS reagent: ARP309 | | | | | | |
| 135 71-31 | Gag() | p24() | | no | HIV-1 | human(IgG ₁ λ) |
| References: [Gorny (1989), Robinson (1990b), Robinson (1991), Spear (1993), Gorny (1997), Gorny (1998), Bandres (1998)] | | | | | | |
| <ul style="list-style-type: none"> • 71-31: Did not enhance HIV-1 IIIB infection [Robinson (1990b)] • 71-31: No enhancing or neutralizing activity [Robinson (1991)] • 71-31: Did not mediate deposition of complement component C3 on HIV infected cells [Spear (1993)] • 71-31: Included as a negative control in studies that demonstrate that CXCR4 can bind to gp120 in the absence of CD4-gp120 interactions, and that this binding can be enhanced by Env deglycosylation [Bandres (1998)] • 71-31: NIH AIDS Research and Reference Reagent Program: 530 | | | | | | |
| 136 V7-8 | Gag() | p24() | | no | HIV-1 infection | murine(IgG ₃ κ) |
| References: [Robinson (1990b), Montefiori (1991)] | | | | | | |
| <ul style="list-style-type: none"> • V7-8: Did not enhance HIV-1 IIIB infection [Robinson (1990b)] • V7-8: Reacted with HIV-1IIIB, RF, and MN [Montefiori (1991)] • V7-8: NIH AIDS Research and Reference Reagent Program: 381 | | | | | | |
| 137 98-4.9 | Gag() | p24() | | no | HIV-1 infection | murine(IgG ₃ λ) |
| References: [Gorny (1989)] | | | | | | |
| 138 98-4.3 | Gag() | p24() | | no | HIV-1 infection | human(IgG ₁ λ) |
| References: [Robinson (1991)] | | | | | | |
| <ul style="list-style-type: none"> • 98-4.3: No enhancing or neutralizing activity [Robinson (1991)] | | | | | | |

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| 139 IE8G2 | Gag() Donor: R. B. Ferns and R. S. Tedder References: [Ferns (1987), Ferns (1989)] • IE8G2: Reacted with both p55 and p24 – broadly reactive – showed less than 75% homologous inhibition [Ferns (1987)] • IE8G2: UK Medical Research Council AIDS reagent: ARP347 | p24() | | | Inact CBL-1 | murine(IgG ₁) |
| 140 human sera | Gag() References: [Binley (1997b)] • Retention of anti-Env antibodies and loss of anti-Gag antibodies during progression was studied, and suggested to be the result of the loss of T-cell help and the unique ability of Env to stimulate B cells even in a backdrop of declining CD4 cells, because of the ability of Env to bind to the CD4 molecule [Binley (1997b)] | p24() | | | HIV-1 infection | human(IgG) |
| 141 241-D | Gag() Donor: Susan Zolla-Pazner (Zollas01@mcr6.med.nyu) (NYU Med. Center) References: [Gorny (1989), Tyler (1990), Robinson (1991)] • 241-D: An antibody by this name is available in the NIH AIDS Research and Reference Reagent Program, and they refer to the papers: [Gorny (1989), Tyler (1990), Robinson (1991)], but no p24 MAb by this name is discussed in these papers • 241-D: MH AIDS Research and Reference Reagent program: 1244 | p24() | | no | | human(IgG ₁ λ) |
| 142 183-H12-5C | Gag() Donor: Bruce Chesebro and Kathy Wehrly, Rocky Mountain Laboratories, Hamilton, Montana References: [Chesebro (1992), Toohey (1995), Wehrly & Chesebro(1997)] • 183-H12-5C: Cross-reacts with HIV1 and HIV-2 p24, and SIV p27 • 183-H12-5C: Used as antigen capture reagent for p24 ELISA [Chesebro (1992), Toohey (1995)] • 183-H12-5C: Cross-reacts with HIV1 and HIV-2 p24, and SIV p27 [Wehrly & Chesebro(1997)] • 183-H12-5C: NIH AIDS Research and Reference Reagent Program: 3537 | p24() | | no | unk | murine(IgG ₁) |
| 143 ED8 | Gag(dis) References: [Tanchou (1995)] • ED8: Binds NCp7 independent of Zn fingers, does not react with NCp15 [Tanchou (1995)] | p7(Gag dis) | | no | purified NCp7 | murine(IgG) |
| 144 AC2 | Gag(dis) References: [Tanchou (1995)] • AC2: Binds NCp7 independent of Zn fingers, does not react with NCp15 [Tanchou (1995)] | p7(Gag dis) | | no | purified NCp7 | murine(IgG) |

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| 145 CD9 | Gag(dis) References: [Tanchou (1995)] • CD9: Binds NCp7 independent of Zn fingers, does not react with NCp15 [Tanchou (1995)] | p7(Gag dis) [Tanchou (1995)] | | no | purified NCp7 | murine(IgG) |
| 146 BE10 | Gag(dis) References: [Tanchou (1995)] • BE10: Binding NCp7 requires Zn fingers, does not react with NCp15, inhibits NCp7-tRNA interaction [Tanchou (1995)] | p7(Gag dis) [Tanchou (1995)] | | no | purified NCp7 | murine(IgG) |
| 147 polyclonal | Gag() | p24() | | | rgp120 and p24 SF2 in PLG+MF59 microparticles | murine and boon() |

References: [O'Hagan (2000)]

- Microparticles were used as an adjuvant for entrapped HIV-1 gp120 and induced strong serum IgG responses in mice
 - polylactide co-glycolide polymer (PLG) microparticles in combination with MF59 had the highest Ab response and also induced p24-specific CTL [O'Hagan (2000)]