

Table 4: **Reverse Transcriptase**

MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
145 IE8	RT(65-73)  <b>Donor:</b> Bruce Chesebro and Kathy Wehrly, Rocky Mountain Laboratories, Hamilton, Montana <b>References:</b> [Wu et al.(1993), Gu et al.(1996)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• IE8: Inhibits RT activity, binding site overlaps with two AZT resistance mutations [Wu et al.(1993)]</li><li>• IE8: Significantly inhibits DNA polymerase activity of RT by hindering binding of dNTPs – additive or synergistic RT inhibition with nevirapine and delavirdine [Gu et al.(1996)]</li></ul>	RT(220-228)	KKDSTKWRK	N	nitrocellulose bound rec p51/p66 RT	murine(IgG <sub>1</sub> )
146 RT7O	RT(231-315)  <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Ferns et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• RT7O: Conformational epitope located centrally in the protein – inhibited RT enzyme activity and thus may bind close to the active site of the enzyme [Ferns et al.(1991)]</li><li>• RT7O: UK Medical Research Council AIDS reagent: ARP381</li></ul>	RT(dis)	DISCONTINUOUS	N	rRT	murine(IgG <sub>1</sub> )
147 RT7U	RT(231-315)  <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Ferns et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• RT7U: Has a conformational epitope – reacts with p66 and p51 in WB [Ferns et al.(1991)]</li><li>• RT7U: UK Medical Research Council AIDS reagent: ARP380</li></ul>	RT(dis)	DISCONTINUOUS	N	rRT	murine
148 1.152 B3	RT(294-302)  <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Orvell et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• 1.152 B3: Weakly positive by immunofluorescence – binding inhibits RT enzymatic activity [Orvell et al.(1991)]</li></ul>	RT(449-457)	PLTEEALELE	N	Purified cloned RT	murine(IgG <sub>1</sub> )
149 1.158 E2	RT(294-302)  <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Orvell et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• 1.158 E2: Negative by immunofluorescence – binding inhibits RT enzymatic activity [Orvell et al.(1991)]</li></ul>	RT(449-457)	PLTEEALELE	N	Purified cloned RT	murine(IgG <sub>1</sub> )

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Mab ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
150 31D6	RT(294-319) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Szilvay et al.(1992)] <b>NOTES:</b> <ul style="list-style-type: none"><li>31D6: Strong inhibitor of RT, &gt; 50% inhibition [Szilvay et al.(1992)]</li></ul>	RT(449-473)	PLTEEALELAEENREIL-KEPVHGVY	N	E. coli TrpE RT fusion protein	murine(IgG <sub>1</sub> )
151 31G8	RT(294-319) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Szilvay et al.(1992)] <b>NOTES:</b> <ul style="list-style-type: none"><li>31G8: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay et al.(1992)]</li></ul>	RT(449-473)	PLTEEALELAEENREIL-KEPVHGVY	N	E. coli Trp RT fusion protein	murine(IgG <sub>1</sub> )
152 32E7	RT(294-319) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Szilvay et al.(1992)] <b>NOTES:</b> <ul style="list-style-type: none"><li>32E7: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay et al.(1992)]</li></ul>	RT(449-473)	PLTEEALELAEENREIL-KEPVHGVY	N	E. coli Trp RT fusion protein	murine(IgG <sub>1</sub> )
153 33D5	RT(294-319) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Szilvay et al.(1992)] <b>NOTES:</b> <ul style="list-style-type: none"><li>33D5: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay et al.(1992)]</li></ul>	RT(449-473)	PLTEEALELAEENREIL-KEPVHGVY	N	E. coli Trp RT fusion protein	murine(IgG <sub>1</sub> )
154 5B2	RT(294-319) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Szilvay et al.(1992)] <b>NOTES:</b> <ul style="list-style-type: none"><li>5B2: Weak inhibitor of RT, reactive by immunofluorescence [Szilvay et al.(1992)]</li><li>5B2: UK Medical Research Council AIDS reagent: ARP3018</li></ul>	RT(449-473)	PLTEEALELAEENREIL-KEPVHGVY	N	E. coli Trp RT fusion protein	murine(IgG <sub>1</sub> )
155 polyclonal	RT(295-304 PV22) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Grimison & Laurence(1995)]	RT(450-459)	LTEEALELALA	N	HIV-1 infection	human(IgG)

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156 1.153 G10	RT(350-354) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Orvell et al.(1991)]	RT(505-509)	KTGKY	N	Purified cloned RT	murine(IgG <sub>1</sub> )
157 1C12B1	RT(431-521) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Ferns et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• 1C12B1: Recognized both p66 and p51 in Western blot, binds to C terminus [Ferns et al.(1991)]</li><li>• 1C12B1: UK Medical Research Council AIDS reagent: ARP384</li></ul>	RT(dis)	DISCONTINUOUS	N	rRT	murine
158 1.160 B3	RT(442-450) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Orvell et al.(1991)]	RT(597-605)	VDGAANRET	N	Purified cloned RT	murine(IgG <sub>1</sub> )
159 polyclonal	RT(521-531 PV22) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Grimson & Laurence(1995)]	RT(676-686)	IIEQLIKKEKV	N	HIV-1 infection	human(IgG)
160 RTMAb8	RT(532-539) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Tisdale et al.(1988), Ferns et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• RTMAb8: Estimate of amino acids in binding region based on numbering of HXB2 [Ferns et al.(1991)]</li></ul>	RT(531-538)	TTESIVIV	N	rec RT	murine(IgG)
161 RT6H	RT(540-543) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Ferns et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• RT6H: Estimate of amino acids in binding region based on numbering of HXB2 [Ferns et al.(1991)]</li></ul>	RT(539-542)	GKIP	N	rec RT	murine(IgG)
162 1D4A3	RT(540-543) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [Ferns et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• 1D4A3: Estimate of amino acids in binding regions based on numbering of HXB2 [Ferns et al.(1991)]</li></ul>	RT(539-542)	GKIP	N	rec RT	murine(IgG)

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MAb ID	Location	WEAU	Sequence	Neutralizing	Immunogen	Species(Isotype)
163 C2003	RT(703-716 BH10) <b>Donor:</b> B. Ferns and R. Tedder <b>References:</b> [DeVico et al.(1991)] <b>NOTES:</b> <ul style="list-style-type: none"><li>• C2003: Inhibits polymerase activity from a variety of retroviruses – RT protected from inhibition by preincubation with template primer [DeVico et al.(1991)]</li></ul>	RT(691-704)	VPAHKGIGGNEQVD	N	Peptide	rabbit(IgG)