

Table 5: **Protease**

MAB ID	HXB2 Location	Author's Location	Sequence	Neutralizing	Immunogen	Species (Isotype)
148 1696	Protease(1-7) References: [Lescar (1999)] <ul style="list-style-type: none"> 1696: MAB binds to HIV-1 and HIV-2, putative epitopes are PQIYLWQ and PQFSLWK respectively – Pro1 is critical, QIYLWQR residues 2-8, does not compete - MAB disrupts catalytic activity – crystal structure of Fab at 3 Å resolution reveals a deep cavity lined by acidic and hydrophobic residues – the binding region is located within the region required for dimerization and the Fab structure could serve as a basis for drug design targeting this region [Lescar (1999)] 	Pro(1-7) Pro(1999)	PQIYLWQ		HIV-1 Pro	murine(IgG)
149 10E7	Protease(36-46) References: [Croix (1993)] <ul style="list-style-type: none"> 10E7: Immunodominant region of protease in Armenian hamster (but only weakly reactive in people, see: [Bjorling (1992)]) – peptide MSLPGRWKP blocks protease binding [Croix (1993)] 	Pro() Croix (1993)	MSLPGRWPKM	no	rec Protease	hamster(IgG)
150 F11.2.32	Protease(36-46) References: [Lescar (1996), Lescar (1997), Lescar (1999)] <ul style="list-style-type: none"> F11.2.32: Binding leads to significant inhibition in proteolytic activity – crystal structure of Fab-peptide was determined to 2.2 Å resolution – bound peptide shows no structural similarity to the corresponding segment in native protease suggesting binding may distort protein structure [Lescar (1997)] F11.2.32: Distortion may occur in the flap region of the protein, important for regulating access of substrate to the catalytic site [Lescar (1999)] 	Pro(36-46 BH10) Lescar (1997), Lescar (1999)	MSLPGRWPKM		rec BH10 Protease	murine(IgG _{1κ})
151 8G5	Protease(38-45) References: [Croix (1993)] <ul style="list-style-type: none"> 8G5: Binds to MSLPGRWPKM with slightly higher affinity [Croix (1993)] 	Pro(38-45 HXB2) Croix (1993)	LPGRWKPK	no	rec Protease	hamster(IgG)
152 13E1	Protease(38-45) References: [Croix (1993)] <ul style="list-style-type: none"> 13E1: Binds to MSLPGRWPKM with slightly higher affinity [Croix (1993)] 	Pro(38-45 HXB2) Croix (1993)	LPGRWKPK	no	rec Protease	hamster(IgG)
153 8B11	Protease(38-45) References: [Croix (1993)] <ul style="list-style-type: none"> 8B11: Binds to MSLPGRWPKM with slightly higher affinity [Croix (1993)] 	Pro(38-45 HXB2) Croix (1993)	LPGRWKPK	no	rec Protease	hamster(IgG)
154 8C10	Protease(38-45) References: [Croix (1993)] <ul style="list-style-type: none"> 8C10: Binds to MSLPGRWPKM with slightly higher affinity [Croix (1993)] 	Pro(38-45 HXB2) Croix (1993)	LPGRWKPK	no	rec Protease	hamster(IgG)