

Figure S1

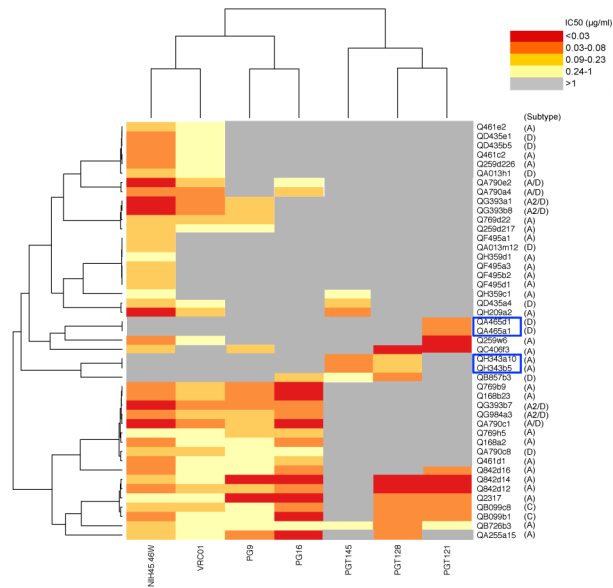


Figure S1. Hierarchical clustering of mAbs (bottom) and panel viruses (right). A heatmap of IC₅₀ values for each virus-mAb combination is shown, with darker shading indicating increasing potency, as indicated by the key. The grey color indicates that 50% neutralization was not achieved at the highest concentration of mAb tested (1 μ g/ml). Blue boxes indicate viruses that are only neutralized by PGT121, PGT128, and/or PGT145.

Figure S2

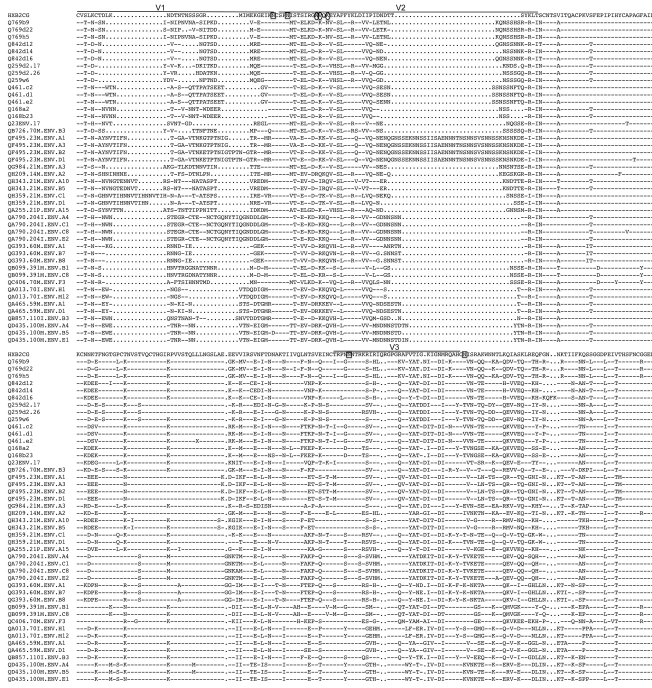


Figure S2. Amino acid alignment of the V1-V3 envelope region of all panel viruses. HXB2 sequence is shown at the top as reference. Symbols: dashes, consensus amino acid sequences; dots, deletions; boxes, PNGS at residues 156 and 160 in V1/V2, and at residues 301 and 332 in V3 important for PG9/16 and PGT121/128 neutralization, respectively; circles, positively charged residues in positions 168, 169, and 171 of V2 important for PG9/16 and PGT145 neutralization.

Figure S3

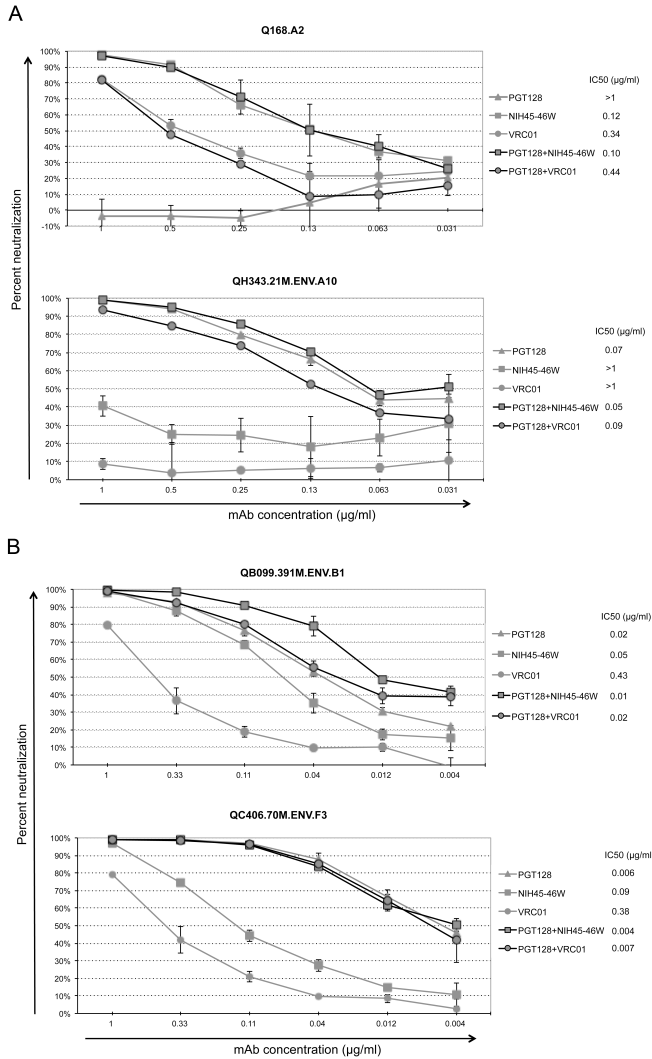


Figure S3. Viruses were tested against PGT128 alone, NIH45-46W alone, VRC01 alone, or a 1:1 combination of PGT128, NIH45-46W, and VRC01 at a starting concentration of 1 $\mu\text{g/ml}$ each mAb. Percent neutralization against mAb concentration is plotted. IC50 values are shown in the key and are based on averages from 2 independent experiments, only one of which is shown. (A) Neutralization curves of viruses sensitive to NIH45-46W and VRC01, but not PGT128 (top panel), or vice versa (bottom panel). (B) Neutralization curves of viruses sensitive to NIH45-46W, VRC01, and PGT128.

Figure S4

Subject ID	Subtype	Year of infection	Days PI*	Virus	NIH45-46W + PGT128	PGT 121	PGT121 + PGT128	PGT121 + PGT128 + NIH45-46W
QA465	D	1993	59	QA465.59M.ENV1.A1 QA465.59M.ENV.D1	>1	0.03	0.04	0.02

Figure S4. Viruses not neutralized in by a combination of NIH45-46W and PGT128 were tested against PGT121 alone and in combination with either PGT128 or PGT128 and NIH45-46W. Asterisk, estimated days post infection at which envelope clone was obtained. Darker shading indicates increasing mAb potency, as indicated by the key. Grey color indicates that 50% neutralization was not achieved at the highest concentration of mAb tested (1µg/ml). IC50 values shown are averages from at least 2 independent experiments performed in duplicate.