

S3 Table. *p*-values of logistic regressions between UniFrac PCoA components 1-10 (MDS1-MDS10) and the median split transformed concentrations of the antibodies described in Table 1. MDS1 is associated with several immune responses ($p < 0.05$, FDR < 0.2), the other MDS components are not.

Type	Antigen	Month	MDS1	MDS2	MDS3	MDS4	MDS5	MDS6	MDS7	MDS8	MDS9	MDS10	
IgA	gp41	0.0	0.658	0.579	0.403	0.829	0.700	0.656	0.210	0.432	0.041	0.840	
		6.5	0.175	0.371	0.755	0.556	0.122	0.196	0.428	0.377	0.905	0.935	
		12.0	0.871	0.207	0.440	0.390	0.819	0.751	0.610	0.111	0.104	0.166	
	p24	0.0	0.325	0.690	0.570	0.952	0.806	0.571	0.141	0.940	0.981	0.531	
		6.5	0.678	0.297	0.677	0.310	0.640	0.622	0.934	0.214	0.891	0.341	
		12.0	0.390	0.683	0.259	0.447	0.079	0.501	0.608	0.156	0.630	0.129	
IgG	Con.6.gp120.B	6.5	0.017	0.615	0.366	0.690	0.328	0.493	0.859	0.685	0.724	0.208	
		12.0	0.030	0.982	0.350	0.674	0.965	0.559	0.512	0.362	0.753	0.260	
	gp41	0.0	0.040	0.910	0.369	0.810	0.375	0.209	0.588	0.631	0.873	0.450	
		6.5	0.058	0.266	0.268	0.918	0.714	0.144	0.670	0.417	0.179	0.666	
		12.0	0.806	0.328	0.412	0.189	0.961	0.261	0.747	0.051	0.424	0.050	
	gp70 B.CaseA V1-V2	6.5	0.602	0.890	0.289	0.592	0.397	0.603	0.422	0.164	0.042	0.965	
		12.0	0.036	0.698	0.729	0.631	0.216	0.307	0.964	0.179	0.440	0.229	
	p24	0.0	0.428	0.238	0.925	0.182	0.070	0.060	0.664	0.616	0.479	0.401	
		6.5	0.397	0.857	0.271	0.351	0.429	0.096	0.174	0.726	0.396	0.078	
		12.0	0.176	0.735	0.247	0.680	0.856	0.373	0.035	0.520	0.735	0.121	
	ZM96.gp140	6.5	0.030	0.563	0.217	0.964	0.203	0.923	0.878	0.864	0.100	0.408	
		12.0	0.186	0.330	0.304	0.734	0.757	0.354	0.558	0.363	0.020	0.126	
	CD4+	Any ENV PTEG	6.5	0.219	0.619	0.750	0.230	0.140	0.088	0.574	0.096	0.634	0.285
			12.0	0.231	0.608	0.491	0.266	0.061	0.922	0.658	0.154	0.774	0.686