FIG. 1

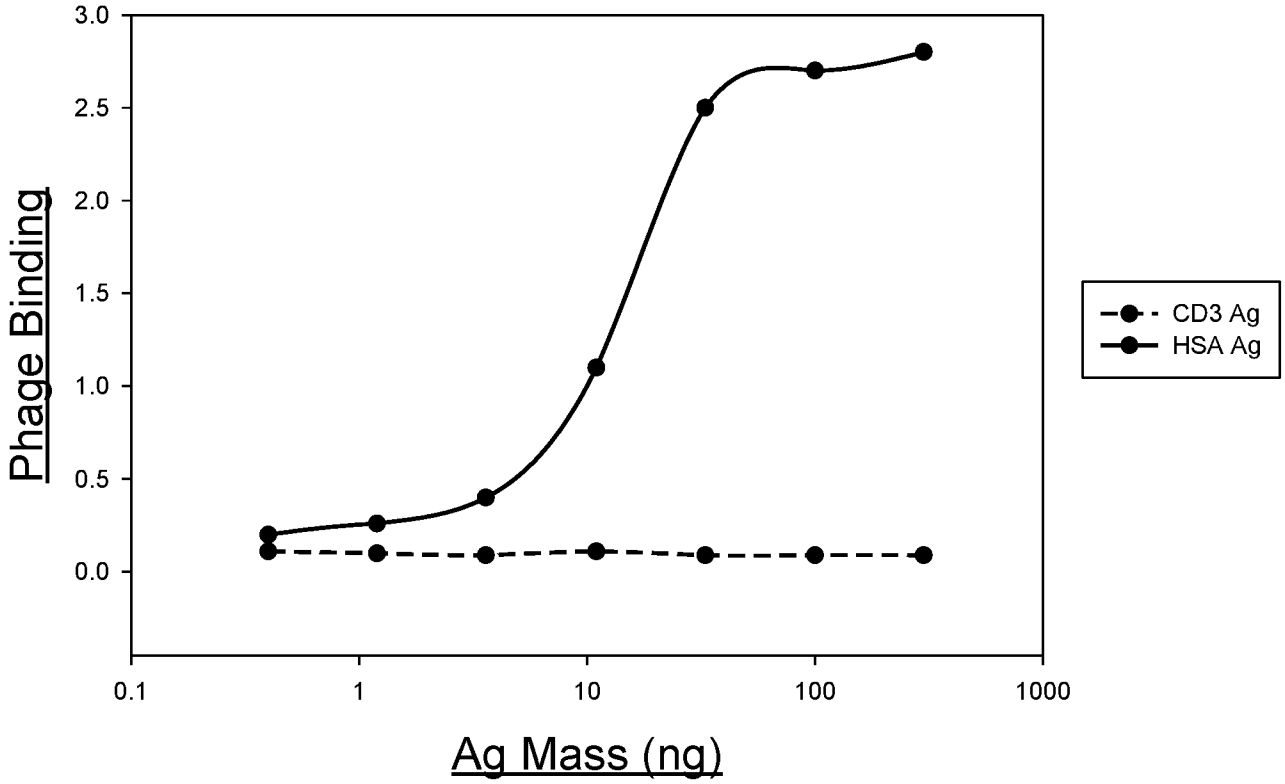
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Phage Binding
0.1
1
10
100
1000
Ag Mass (ng)
CD3 Ag
HSA Ag

FIG. 2

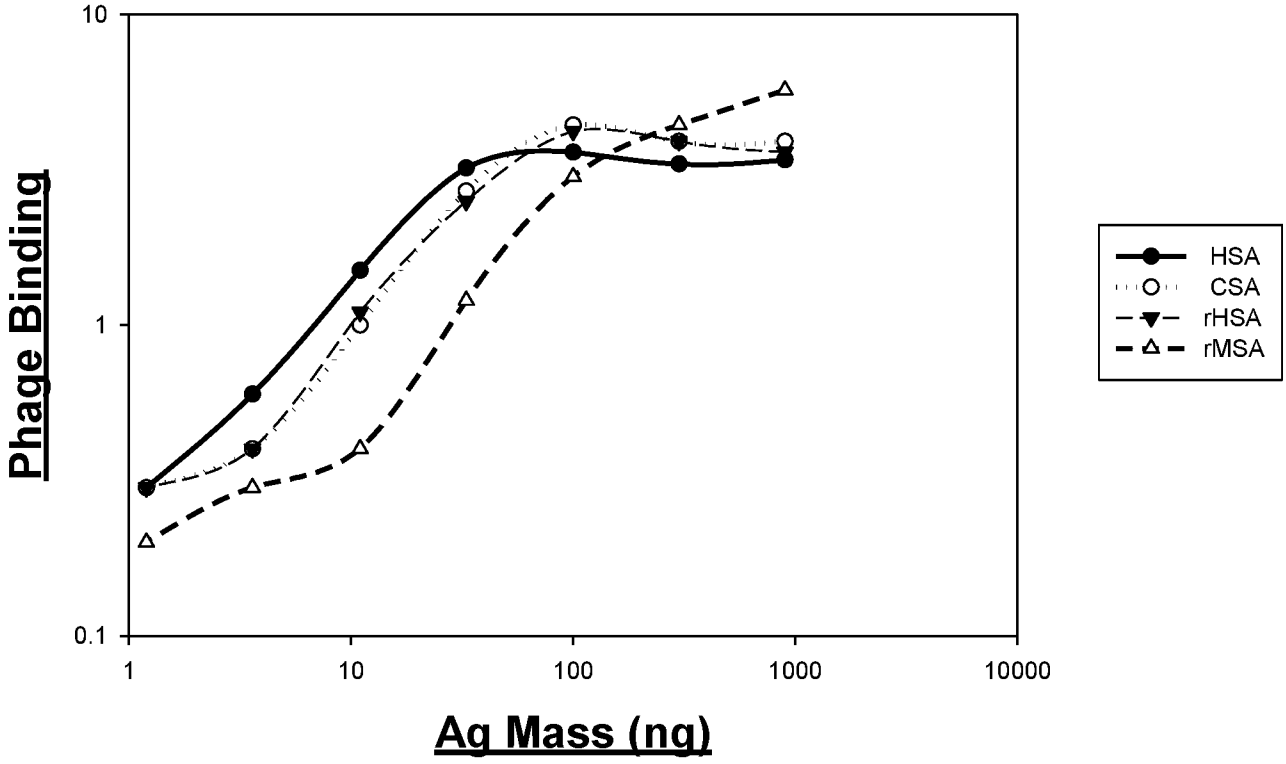
Cross Reactivity of HSA Phage
Phage Binding
10
1
0.1
1
10
100
1000
10000
Ag Mass (ng)
HSA
CSA
rHSA
rMSA

FIG. 3

Clone	hK_d	cK_d	mK_d
WT	4 nM	4.1 nM	42.5 nM
6C	2.3 nM	2.4 nM	17.3 nM
7A	1.9 nM	1.7 nM	12.3 nM
7G	3.2 nM	3.6 nM	32.9 nM
8H	2.7 nM	2.6 nM	14.5 nM
9A	6.0nM	7.5nM	
10G	2.2 nM	2.3 nM	15.7 nM
6CE	2.1 nM	2.2 nM	16.8 nM
8HE	2.1 nM	2.0 nM	16.7 nM
10GE	1.6 nM	1.6 nM	16.1 nM

FIG. 4

Anti-HSA single domain antibody variants	T_h (°C)
WT	63
6C	64.9
7A	59.1
7G	57.3
8H	66.2
10G	70.7
6CE	64
8HE	65.9
10GE	71.1

FIG. 5

Anti-HSA single domain antibody variants	% Dimer	% Monomer
WT	3.9	96.1
6C	6.1	93.9
7A	35.1	64.9
7G	22	78
8H	5.5	94.5
10G	1.3	98.7