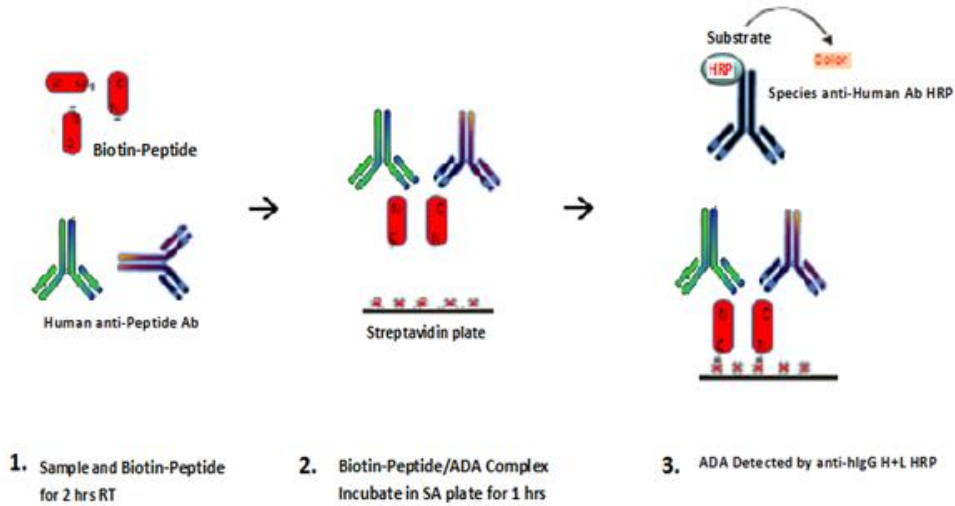
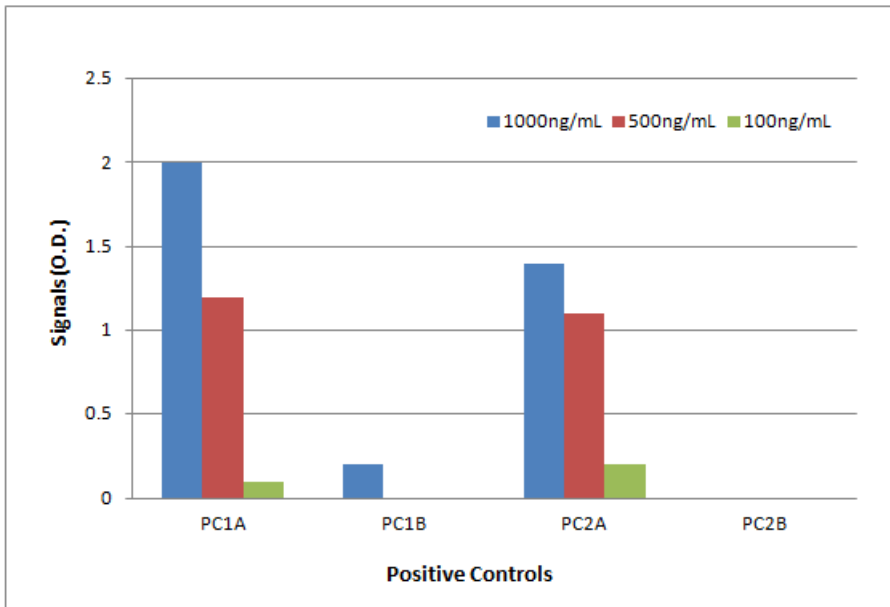


Supplemental Figure 1. Assay Format

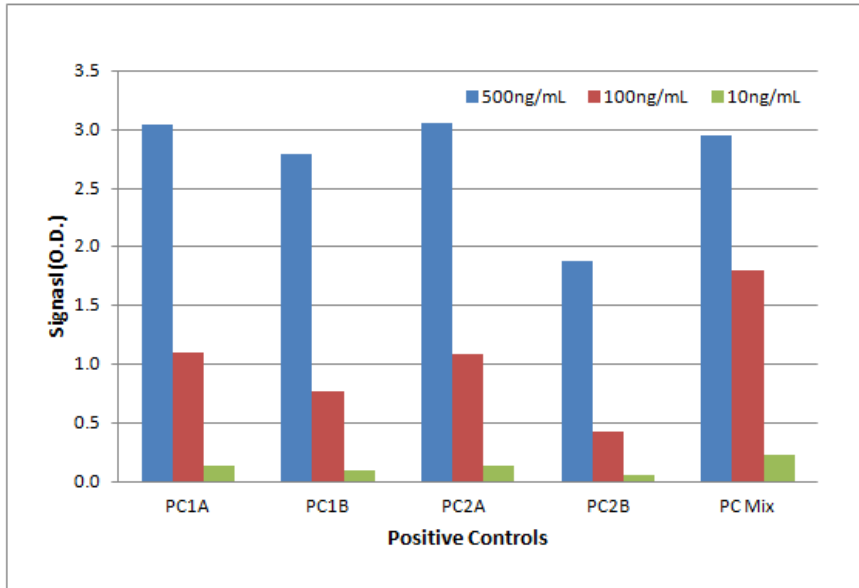


Supplemental Figure 2. Positive Control Signals in Peptide Coated Plate



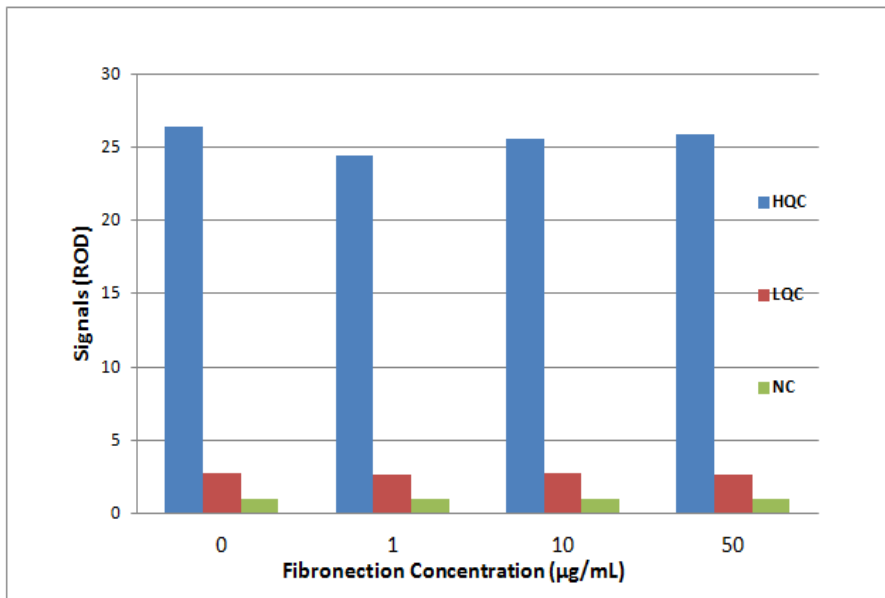
Note: this assay format had poor assay sensitivity and highly false-negative risk.

Supplemental Figure 3. Positive Control Signals in Biotin-Peptide Coated Plate



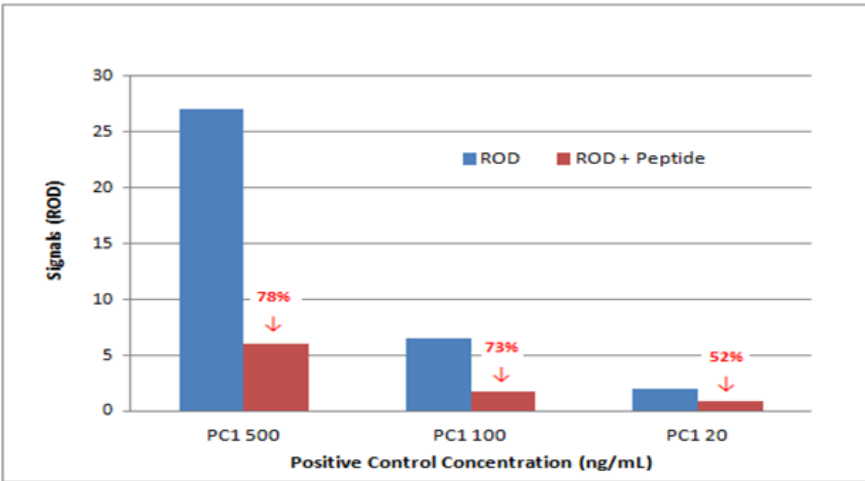
Note: N-/C-terminal biotin-peptides eliminated false-negative, enhanced sensitivity and reduced peptide interference.

Supplemental Figure 4. PC Ab Specificity Test with Fibronectin



Note: the assay positive control antibody was specific to non-human regions of peptide and didn't have cross-reactive to RGD motifs on fibronectin.

Supplemental Figure 5. Assay Specificity (Signal %Inhibition)



Note: Positive control signals could be specifically inhibited by peptide.

Supplemental Figure 6. Protein sequence alignment of RGD peptides

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
GSK2634673 [18F]-4-FBA-HN-	N	A	V	P	N	L	R	G	D	L	Q	V	L	A	Q	K	V	A	R	T	-NH ₂
FMDV type O, VP1	N	A	V	P	N	L	R	G	D	L	Q	V	L	A	Q	K	V	A	R	T	
FMDV type C, VP1	T	Y	A	A	S	A	R	G	D	L	A	H	L	T	T	T	H	A			
Tenascin-C:	V	S	L	I	S	R	R	G	D	M	S	S	N	P	A	K	E	T	F	T	
Fibronectin III (dimer)	V	Y	A	V	T	G	R	G	D	S	P	A	S	S	K	P	I	S	I	N	
LAP-TGFβ (dimer)	G	F	T	T	G	R	R	G	D	L	A	T	I	H	G	M	N	R	P	F	
Fibronogen	S	S	T	S	Y	N	R	G	D	S	T	F	E	S	K		S	Y			
Vitronectin	C	K	P	Q	V	T	R	G	D	V	F	T	M	P	E	D	E	Y			

RGD Specifically binding to integrins (αvβ6, β1, β3, β5...integrins)
DLxxL Highly specific inhibition of RGD-dependent ligand binding to αvβ6 integrin
 Many other integrin ligands (e.g. collagen,laminin...) and some virus proteins also contain RGD motif
 GSK2634673: [18F]-FBA-A20FMDV2 peptide (20 a.a. MW: 2284)
 4-fluorobenzamide (FBA) is a linker