

S2 Table. Results of Spike-in Experiments.

Cell line	Cell number set	Number of spiked cells / 3 mL blood	Number of detected cells	Detection rate (%)	Mean detection rate (%)	CV (%)
SK-BR-3	10 cells*	9	7	77.8	90.0	12.5
		13	12	92.3		
		9	9	100.0		
	100 cells*	96	78	81.3	70.6	20.2
		80	61	76.3		
		103	56	54.4		
	1000 cells*	1000	693	69.3	/	/
		1000	897	89.7		
		1000	767	76.7		
PC-9	10 cells*	12	9	75.0	70.2	18.4
		10	8	80.0		
		9	5	55.6		
	100 cells*	103	90	87.4	85.2	2.7
		99	82	82.8		
		89	76	85.4		
	1000 cells*	1000	824	82.4	/	/
		1000	815	81.5		
		1000	1420	142.0		
PC-14	10 cells [#]	11	7	63.6	63.3	26.8
		10	8	80.0		
		13	6	46.2		
	100 cells*	106	17	16.0	13.9	/
		111	13	11.7		
		105	75	71.4		
	100 cells [#]	100	75	75.0	68.6	24.7
		113	67	59.3		
		1000	1053	100.0		
H69	10 cells [#]	9	7	77.8	70.1	10.9
		8	5	62.5		
		10	7	70.0		
	100 cells*	96	3	3.1	6.4	/
		103	10	9.7		
		103	69	67.0		
	100 cells [#]	114	70	61.4	72.7	10.5
		98	88	89.8		
		1000	889	88.9		
1000 cells [#]	1000	616	61.6	/	/	
	1000	242	24.2			
	1000	242	24.2			
SBC-3	10 cells [#]	11	6	54.5	50.2	8.4
		13	6	46.2		
		10	5	50.0		
	100 cells*	91	0	0.0	3.0	/
		101	6	5.9		
		98	57	58.2		
	100 cells [#]	93	58	62.4	55.9	7.5
		93	44	47.3		
		1000	535	53.5		
1000 cells [#]	1000	544	54.4	/	/	
	1000	544	54.4			

Immunofluorescent protocol utilizing:

* : fluorophore-conjugated primary anti-CK antibody

: primary anti-CK antibody and fluorophore-conjugated secondary antibody