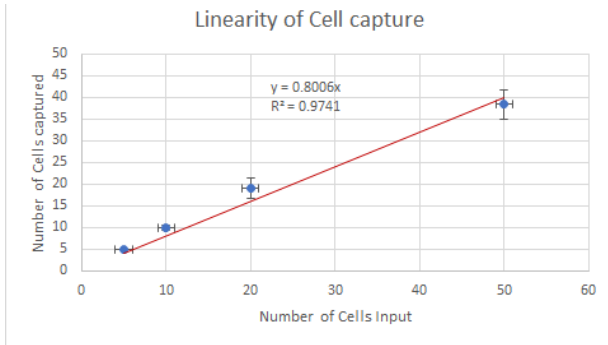


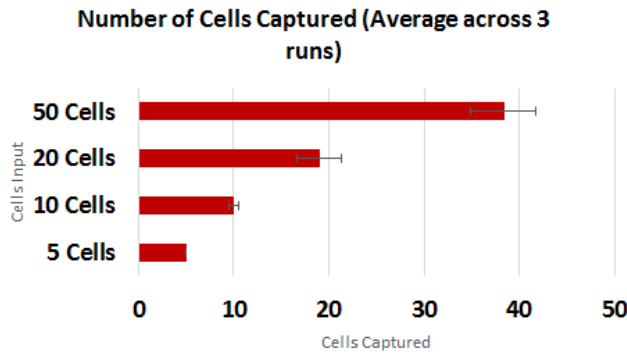
# BioINK

## Specially Formulated Reagents for Micro-Fluidics



### Lung Tumor Cells in Whole Blood

Number of Cells Input	Number of Cells Captured
5	5
10	10
20	19
50	38



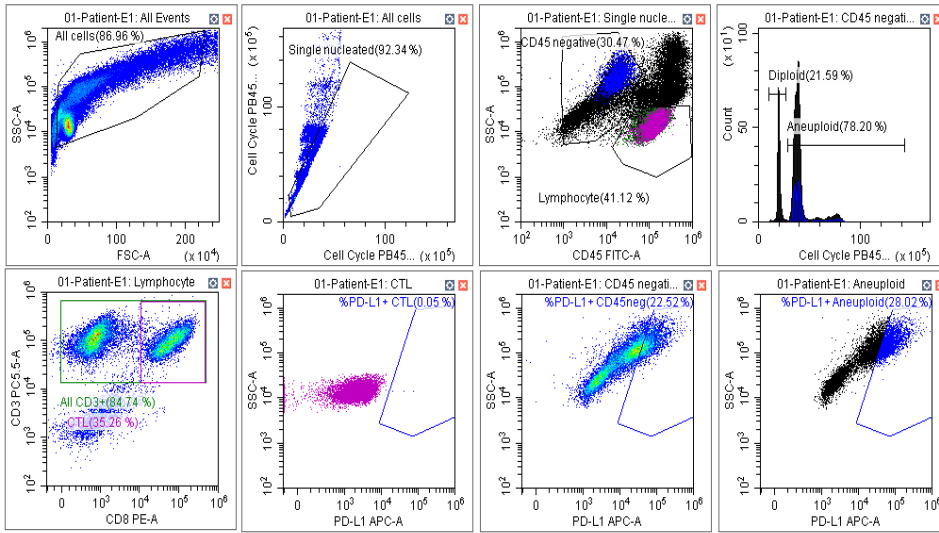
### Lung Tumor Cells in Whole Blood

Number of Cells Input	Expt. 1	Expt. 2	Expt. 3
5	5	5	0
10	10	9	11
20	15	19	23
50	36	45	34

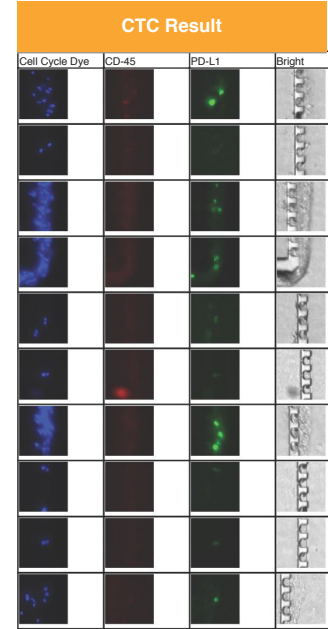
Patient	All Events	Single nucleated % Total	Single nucleated % Parent	%PD-L1+ CD45neg % Parent	Aneuploid % Parent	CD45 negative % Parent	Lymphocyte % Parent	All CD3+ % Parent	CTL % Parent	Diploid % Parent	%PD-L1+ Aneuploid % Parent	%PD-L1+ CTL % Parent	DNA Index	# of CTCs
1	50000	80.35%	92.41%	22.72%	79.07%	29.85%	41.60%	84.42%	34.97%	20.83%	5.29%	0.05%	1.87	81
2	50000	65.79%	79.56%	0.82%	93.57%	67.75%	18.92%	85.74%	58.56%	6.37%	0.78%	0.13%	1.68	9
3	46458	73.62%	85.46%	4.72%	21.44%	47.18%	20.18%	74.44%	27.14%	77.45%	8.51%	0.62%	1.06	0
4	50000	64.99%	82.62%	43.87%	59.36%	35.13%	42.41%	75.96%	39.02%	34.94%	56.33%	0.33%	1.73	12
5	50000	72.73%	87.36%	0.37%	76.70%	53.86%	38.17%	77.43%	3.36%	23.18%	0.16%	0.00%	1.82	0
6	25748	75.61%	88.51%	2.20%	23.52%	16.60%	20.48%	63.83%	31.95%	75.39%	1.92%	0.03%	1.03	3
7	50000	64.11%	75.00%	10.01%	77.23%	47.04%	34.20%	69.32%	33.49%	22.42%	12.12%	0.14%	2.01	50
8	50000	81.14%	91.20%	10.36%	29.15%	19.74%	68.71%	63.81%	26.55%	70.79%	17.97%	0.07%	1.06	6
9	50000	53.23%	66.93%	9.50%	40.20%	25.94%	28.19%	61.93%	15.94%	56.76%	16.76%	0.00%	1.11	13
10	50000	38.92%	59.67%	49.84%	86.47%	28.22%	21.50%	91.99%	73.37%	13.00%	57.06%	0.03%	3.21	9

# OncoTect iO Results on NSCLC Biopsy and Peripheral Whole Blood

Sample 1

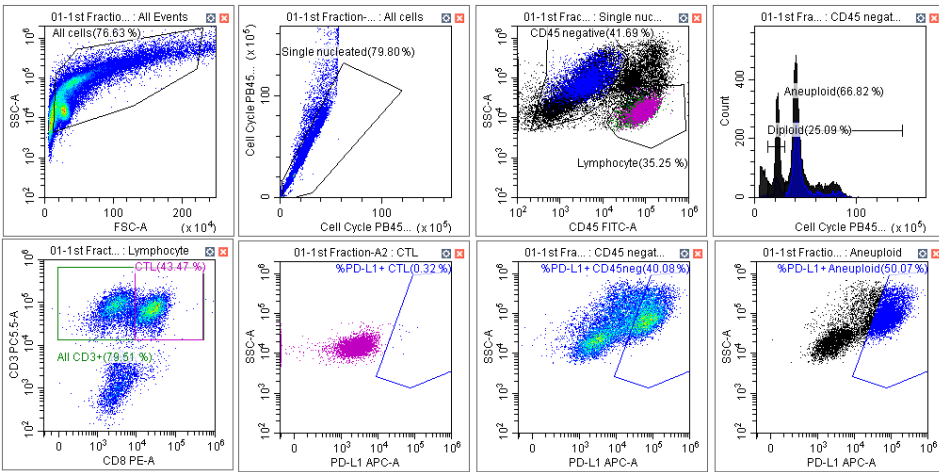


Aneuploid NSCLC tumor with PD-L1 over-expression on both CD45 negative and Aneuploid cells

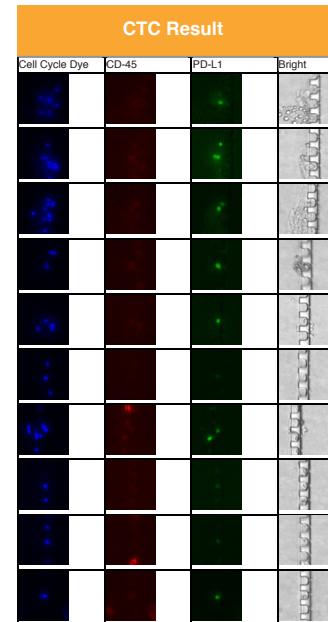


9 CTCs detected PD-L1, CTC shown in green present

Sample 2

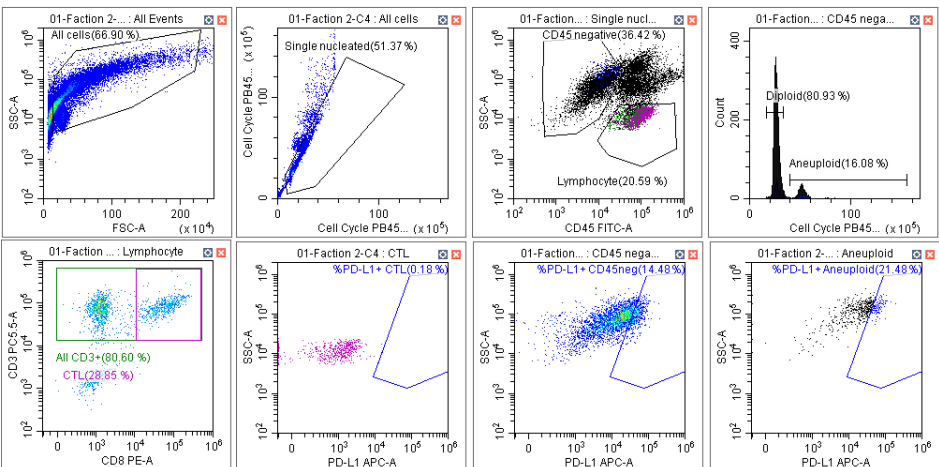


Aneuploid NSCLC tumor with PD-L1 over-expression in the CD45 negative and aneuploid CD45 negative cell populations.

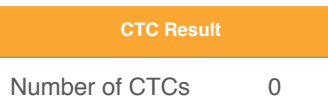


12 CTCs detected, no PD-L1 expression on CTLs.

Sample 3



Diploid NSCLC tumor with PD-L1 over expression in the CD45 negative cell population. 0 CTCs detected.



Number of CTCs 0