Co-detection of a tumor-infiltrating lymphocyte immunofluorescence panel and cytokine RNA in-situ hybridization markers in nonsmall cell lung cancer tumor microenvironment using combined MultiOmyx[™] and RNAscope[®] platforms



14-Marker Panel									
1	IFNg ISH	IL10 ISH							
2	CTLA-4	CD56							
3	PanCK	CD45RO							
4	CD8	FOXP3							
5	CD3	PD-L1							
6	CD4	PD-1							
7	CD20	CD68							

- The novel integrated RNAscope MultiOmyx IF assay is a robust and sensitive platform for simultaneous detection of multiple RNA and protein biomarkers.

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representative region of interest (ROI). B. Representative immune modulator staining (FOXP3, PD-1, PD-L1) from the same set of ROIs. In Figure A and B, the top row is the biomarker staining from IF assay alone and the bottom row is the representative staining from the integrated assay. C. Representative color overlay to demonstrate the staining specificity.

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сv	CD3+ Mean Intensity	CD4+ Mean Intensity	CD45RO+ Mean Intensity	CD8+ Mean Intensity	CD68+ Mean Intensity	CTLA4+ Mean Intensity	CXCL10ISH + Mean Intensity	FOXP3+ Mean Intensity	IFNGISH+ Mean Intensity	PD1+ Mean Intensity	PDL1+ Mean Intensity	TUMOR+ Mean Intensity
Repeatability (Run 1)	7	4	2	6	3	4	0	8	1	6	5	6
Repeatability (Run 2)	7	10	11	14	24	2	1	5	1	15	9	8
Repeatability (Run 3)	3	3	10	11	21	1	3	5	2	6	9	19
Reproducibility	11	3	16	4	33	5	2	16	20	10	11	15