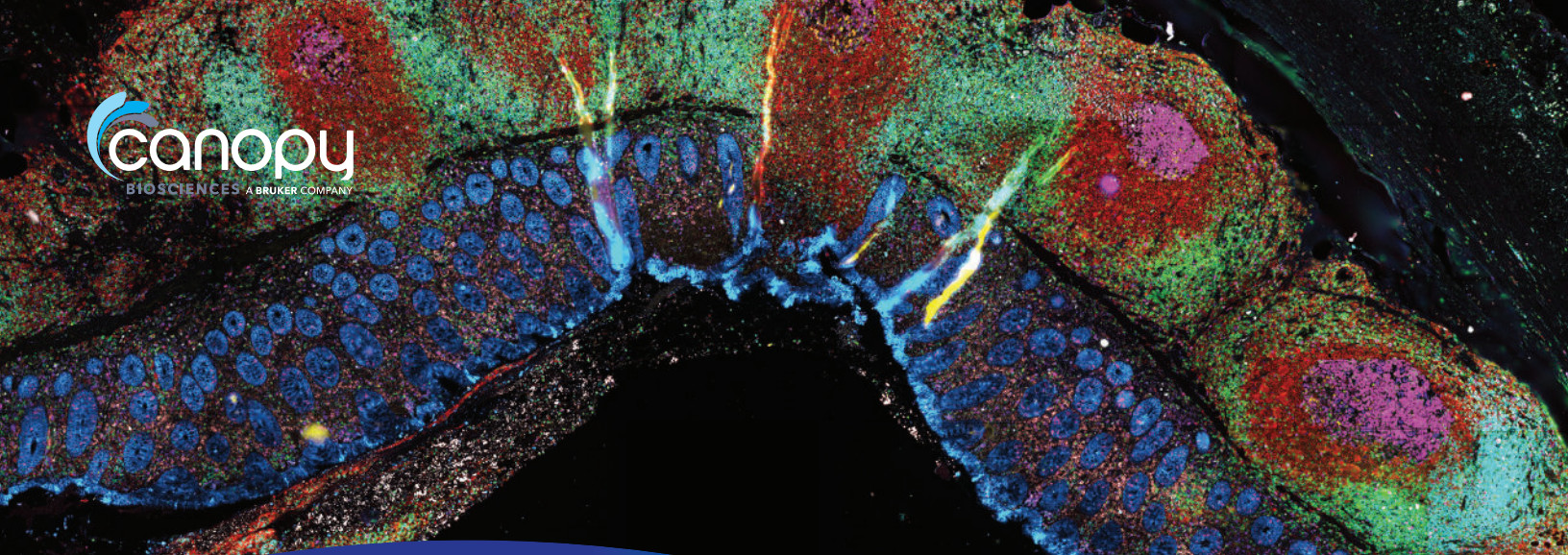

Spatial Immune Profiling Assay Kit

14-Plex for Human FFPE Tissue and ZellScannerONE™

AbKT-3001-10RXN

ChipCytometry™ Assay Kits contain ready-to-use, reliable reagents and optimized protocols to enable researchers to obtain quick, robust data with the ChipCytometry platform. Each ChipCytometry Assay Kit contains pre-validated fluorescent antibodies and buffers for staining 10 samples. Assay Kit optimization involves extensive reagent testing on positive and negative controls and review by a board-certified pathologist. ChipCytometry Assay Kits can be customized by adding antibodies for proteins of interest after the final staining cycle.

Ready-to-use: Get your results quickly with this optimized assay kit. Assay kits include pre-validated antibodies with optimized dilutions and staining plan to accelerate your experiment.

Reliable: Reagents are selected from a variety of vendors and are highly validated for use in ChipCytometry assays. Each assay kit has been tested in multiple donors to validate reproducibility.

Customizable: Each assay kit can be customized to suit researchers needs. Expand upon the kit with pre-validated antibodies from our catalog to customize your panel.

Ready-to-Use Kit

Spatial Immune Profiling Assay Kits contain ready-to-use, reliable reagents and optimized protocols for quick, robust data collection. Identify immune and tumor cells in human FFPE tissue.

Each kit contains 14 pre-validated fluorescent antibodies, nuclear counterstains, and buffers for staining 10 samples. Additional materials, including Chip Kits and Wash Buffer, are required for experiments using the ZellScannerONE and must be purchased separately.

- **Product Number:** AbKT-3001-10RXN
- **Sample Type:** Human FFPE tissue
- **Size:** 10 reactions

The Spatial Immune Profiling Assay Kit contains materials for 10 reactions. The kit includes pre-validated fluorescent antibodies, nuclear counterstains, antibody diluent, and staining protocol for human FFPE tissue.

Staining Protocol					
Cycle	**Target**	**Filter Set**	**Antibody Volume**	**Diluent Volume**	**Incubation Time**
1	Ki67	FS488	50 µl	450 µl	1 hr
	CD27	FS560	50 µl		
	CD3	FSPerCP	50 µl		
2	CD4	FS488	50 µl	500 µl	1 hr
	CD45	FSPerCP	50 µl		
3	CD68	FS488	50 µl	450 µl	1 hr
	FoxP3	FS560	50 µl		
	CD45RA	FSPerCP	50 µl		
4	CD8	FS488	50 µl	450 µl	1 hr
	PD-1	FS560	50 µl		
	EpCAM	FSPerCP	50 µl		
5	Granzyme B	FS488	50 µl	500 µl	1 hr
	PD-L1	FS560	50 µl		

The staining protocol for the Spatial Immune Profiling Assay Kit is accomplished in just 5 cycles. To customize your panel, add additional cycles selecting from our catalog of pre-validated antibodies or supplement with antibodies from your own inventory.

Customizable Protocol

Get your results quickly with this optimized 14-plex protocol. Assay kits include pre-validated antibodies with optimized dilutions and staining plan to accelerate your experiment. This pre-optimized protocol enables researchers to get to results faster.

Each assay kit can be customized to suit individual project needs. Expand upon the kit with pre-validated antibodies from our catalog to customize your panel.

Reliable Coverage

Spatially profile key immune cell phenotypes with the Spatial Immune Profiling Assay Kit. Antibodies in the kit are selected from a variety of vendors and are highly validated for use in ChipCytometry assays. Assay Kit optimization involves extensive testing on control FFPE tissues and staining review by a board-certified pathologist.

Identify cell phenotypes critical for your spatial profiling assay. Phenotypes include key T cell subtypes, macrophages, and epithelial cells. Characterize the cells in your FFPE tissues using the gating strategy below or define your own gating strategy to identify cell types of interest.

	Markers										
Phenotype	**CD45**	**EpCAM**	**CD3**	**CD4**	**CD8**	**CD27**	**CD68**	**FoxP3**	**Ki-67**	**PD-1**	**CD45RA**
Leukocytes	✓										
Epithelial cells		✓									
T cells	✓		✓								
Macrophages	✓						✓				
T helper cells	✓		✓	✓							
T regulatory	✓		✓	✓				✓			
Proliferating T helper cells	✓		✓	✓					✓		
Exhausted T helper cells	✓		✓	✓						✓	
Central memory T helper cells	✓		✓	✓		✓					
Naive T helper cells	✓		✓	✓		✓					✓
Effector T helper cells	✓		✓	✓							✓
Effector memory T helper cells	✓		✓	✓							✓
T cytotoxic cells	✓		✓		✓						
Proliferating T cytotoxic cells	✓		✓		✓				✓		✓
Exhausted T cytotoxic cells	✓		✓		✓					✓	
Naive T cytotoxic cells	✓		✓		✓	✓					✓
Effector T cytotoxic cells	✓		✓		✓						✓
Effector memory CD8+ T cells	✓		✓		✓						

The Spatial Immune Profiling Kit enables spatial phenotyping of key immune populations and epithelial cells, including those listed in the table above. This is partial list of the 8,192 distinct phenotypes that can be identified with this panel. PD-L1 and Granzyme B phenotypes are note represented in this table. Additional phenotypes can be identified for different degrees of expression of single markers.

To request a quote, visit canopybiosciences.com/chipcytometry

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