

# T Cell Assay Kit

8-Plex for PBMC Samples and ZellScannerONE™

AbKT-1003-10RXN

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

T Cell Assay Kits contain ready-to-use, reliable reagents and optimized protocols for quick, robust data collection. Identify key T cell subtypes in PBMC samples.

Each kit contains 8 pre-validated fluorescent antibodies and buffers for staining 10 samples. The pre-validated antibodies target CD45, CD3, CD4, CD8, CD25, CD27, CD39, and CD45RA. Additional materials, including Chip Kits and Wash Buffer, are required for experiments using the ZellScannerONE and must be purchased separately.

- **Product Number:** AbKT-1003-10RXN
- **Sample Type:** Human PBMCs
- **Size:** 10 reactions



The T Cell Assay Kit contains materials for 10 reactions. The kit includes pre-validated fluorescent antibodies, antibody diluent, and optimized protocol for staining human PBMCs.

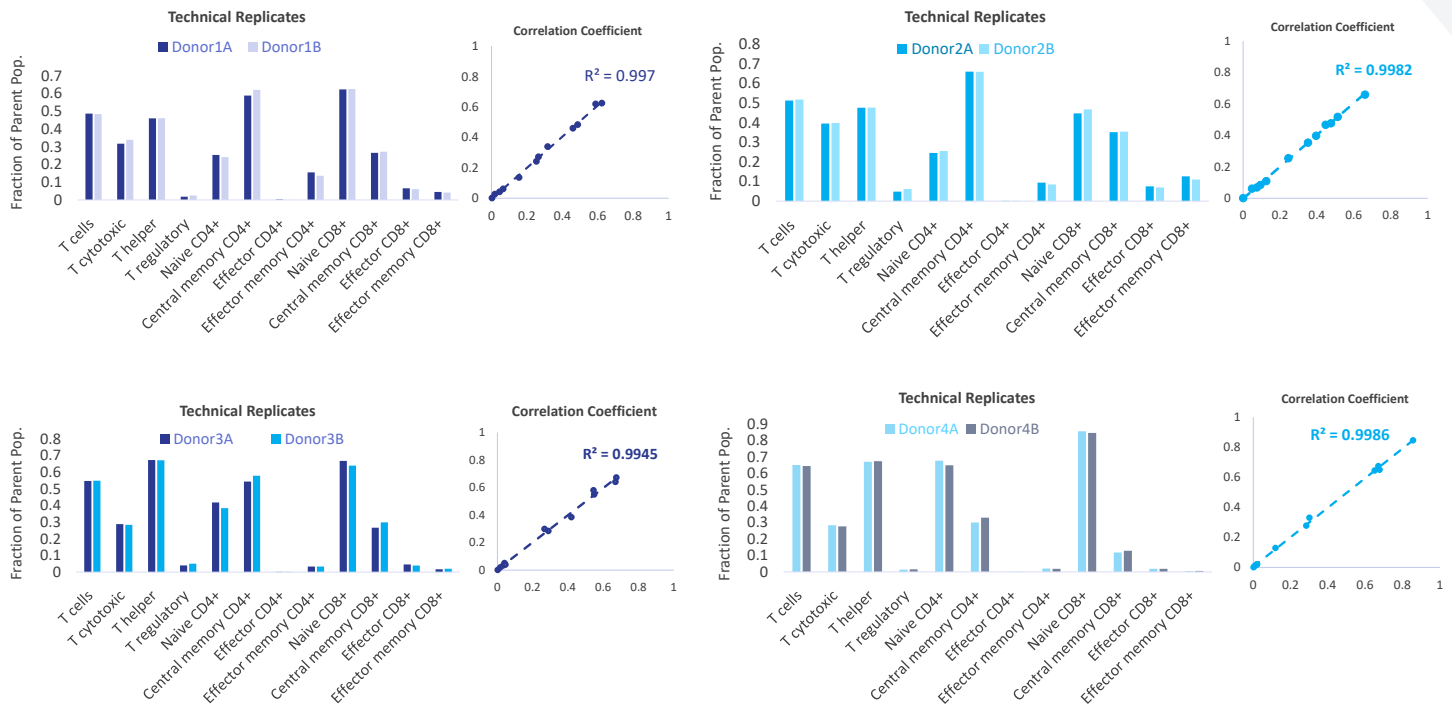
Markers								
Phenotype	CD45	CD3	CD4	CD8	CD25	CD27	CD39	CD45RA
T cells	✓	✓						
T cytotoxic	✓	✓		✓				
T helper	✓	✓	✓					
T regulatory	✓	✓	✓		✓		✓	
Naive CD4+	✓	✓	✓			✓		✓
Central memory CD4+	✓	✓	✓			✓		
Effector CD4+	✓	✓	✓					✓
Effector memory CD4+	✓	✓	✓					
Naive CD8+	✓	✓		✓		✓		✓
Central memory CD8+	✓	✓		✓		✓		
Effector CD8+	✓	✓		✓				✓
Effector memory CD8+	✓	✓		✓				

The T Cell Assay Kit enables spatial phenotyping of key T cell populations, including those listed in the table above. This is partial list of the 255 unique phenotypes that can be identified with this panel. Additional phenotypes can be identified for different degrees of expression of single markers.



## Reliable Results

Reagents are selected from a variety of vendors and are highly validated for use in ChipCytometry assays. Each assay kit has been tested in technical replicates in 4 donors to evaluate reproducibility. The results show good concordance between each donor.



## Customizable Protocol

Get your results quickly with this optimized 8-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.

Staining Protocol					
Cycle	Target	Filter Set	Antibody Volume	Diluent Volume	Incubation Time
1	CD8	FS421	10 $\mu$ l	260 $\mu$ l	5 min
	CD39	FS488	10 $\mu$ l		
	CD25	FS560	10 $\mu$ l		
	CD3	FSPerCP	10 $\mu$ l		
2	CD45	FS421	10 $\mu$ l	260 $\mu$ l	5 min
	CD45RA	FS488	10 $\mu$ l		
	CD27	FS560	10 $\mu$ l		
	CD4	FSPerCP	10 $\mu$ l		

The staining protocol for the T Cell Assay Kit is accomplished in just two cycles. To customize your panel, add additional cycles selecting from our catalog of pre-validated antibodies or your own inventory.



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To request a quote, visit [canopybiosciences.com/chipcytometry](https://canopybiosciences.com/chipcytometry)

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AUGUST 2022 V2