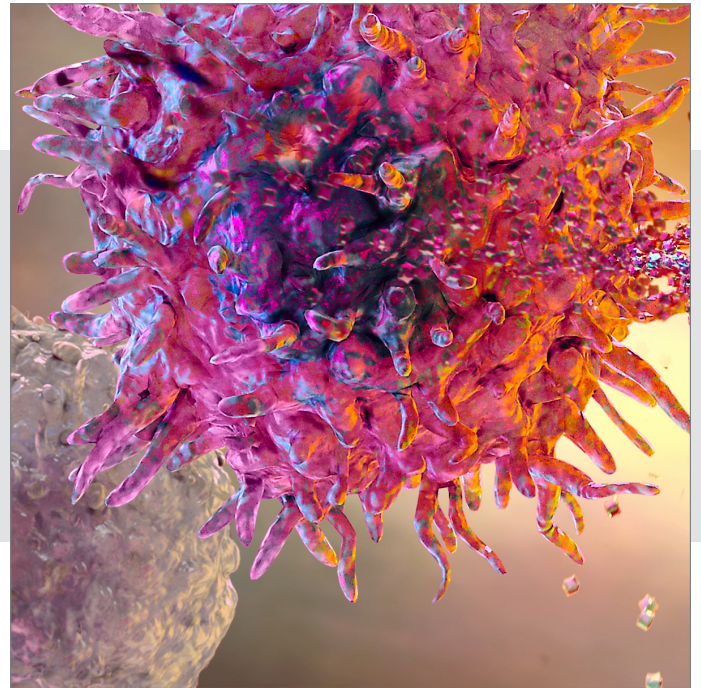




Human T Cell Companion Kit

Product Description:

The Intellicyt Human T Cell Companion Kits are used in combination with the Human T Cell Immunology portfolio of Kits. Human T Cell Companion Kits allow the measurement of human cytokines in addition to the cytokines already included in the Human T Cell Immunology Kits.



List of Available Products

Part Number # 97028 IL-2
Part Number # 97029 IL-6
Part Number # 97030 IL-10
Part Number # 97031 IL-13

Part Number # 97032 IL-17A
Part Number # 97033 GM-CSF
Part Number # 97034 TNF

Components

Detection Reagent (50x) - 90 μ L
Capture Beads (50x) - 90 μ L
Lyophilized Standard - 1 vial
USB Flash Drive Containing:
Analysis Template

Storage

Store at 2-8°C

Use

Use in combination with Intellicyt Human T Cell Immunology Kits. The Human T Cell Companion Kits contain the reagent volumes needed to run a 1 x 384-well format or 4 x 96-well format of the Human T Cell Immunology Kits. Additional Human T Cell Companion Kits are needed for use with 5 x 96-well format and 5 x 384-well format of the Human T Cell Immunology Kits.

Notes

The templates from the specific Human T Cell Immunology Kits do not have the appropriate gating for the companion kit beads. Use the Human T Cell Companion Kit template (see Figure 1 for the full gating of all 8 cytokine beads). The Human T Cell Companion Kits can only be used in conjunction with the Intellicyt Human T Cell Immunology portfolio of Kits.

The Human T Cell Companion Kits contain the reagent volumes needed to run a 1 x 384-well format or 4 x 96-well format of Human T Cell Immunology Kits. Additional Human T Cell Companion Kits are needed for use with 5 x 96-well format and 5 x 384-well format of Human T Cell Immunology Kits.

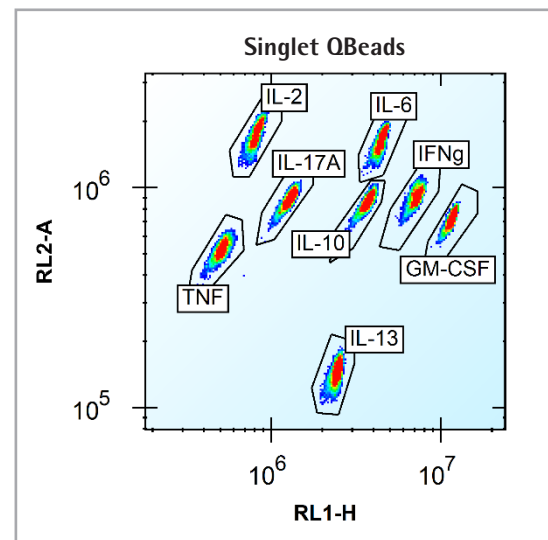


Figure 1: Human T Cell Companion Kit cytokine template.

Procedure

1. Combine Standards – Combine the Human T Cell Companion Kit standards with the standards in the Human T Cell Immunology Kit.

For example: the Human T Cell Activation Cell and Cytokine Profiling Kit provides 2 cytokine standards: IFN γ and TNF α . If you purchased IL-2 and IL-6 Human T Cell Companion Kits, combine all 4 cytokine standards together in a single tube (IL-2, IL-6, IFN γ , and TNF α).

After combining all additional cytokine standards in a single tube, follow the protocol in the Human T Cell Immunology Kit protocol guide. Perform standard reconstitution and titration.

2. Combine Human T Cell Companion Kit Capture Beads (50x)
– To the pre-mixed capture beads in the Human T Cell Immunology Kit, add the appropriate amount of Human T Cell Companion Kit capture beads to the kit vial.

Vortex the Human T Cell Companion Kit capture beads for 30 seconds. Use volumes listed in the tables below for your specific Human T Cell Immunology Kit type and configuration.

3. Combine Human T Cell Companion Kit Detection Reagent (50x) – To the pre-mixed cytokine detection cocktail in the Human T Cell Immunology Kit, add the appropriate amount of detection reagent to the kit vial. Use volumes listed in the tables below for your specific Human T Cell Immunology Kit type and configuration.

4. Perform the Assay – Follow the protocol for your particular Human T Cell Immunology Kit and configuration.

Reagents Included in Human T Cell Activation Cell and Cytokine Profiling Kit

	1 x 96-well	5 x 96-well	1 x 384-well	5 x 384-well
Human IFNγ and TNFα Separate Standards (1 Vial Each)	1 IFN γ 1 TNF α	5 IFN γ 5 TNF α	2 IFN γ 2 TNF α	10 IFN γ 10 TNF γ
Human IFNγ and TNFα Capture Beads (pre-mixed)	1.25 mL	6.25 mL	2.50 mL	12.50 mL
Cytokine Detection Cocktail	1.25 mL	6.25 mL	2.50 mL	12.50 mL

For each Human T Cell Companion Kit cytokine, add volumes listed below to original kit components

	1 x 96-well	5 x 96-well	1 x 384-well	5 x 384-well
Human Cytokine Standard (vials)	1 standard	Combine Human T Cell Companion Kit standard(s) with IFN γ and TNF α Kit standards prepared fresh on each day of use.		
Human T Cell Companion Kit Capture Beads (50x)				
Add volume to the human IFNγ and TNFα Capture Beads (pre-mixed)	25 μ L	Use volumes listed for each 1 x 96-well format and scale up as needed for # of plates/day	50 μ L	Use volumes listed for each 1 x 384-well format and scale up as needed for # of plates/day
Companion Detection Reagent (50x)	25 μ L		50 μ L	
Add volume to the Cytokine Detection Cocktail				

Human T Cell Activation Cell and Cytokine Profiling Kit: fill amounts are for a full 96, or 384-well format.

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