

Human T Cell Companion Kits

Cat. No. 97032 IL-17A

■ Cat. No. 97034 TNFa

■ Cat. No. 97033 GM-CSF

Product Information

The iQue® 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

- Cat. No. 97028 IL-2
- Cat. No. 97029 IL-6
- Cat. No. 97030 IL-10
- Cat. No. 97031 IL-13

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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 iQue® Human T Cell Immunology portfolio of Kits.

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

Components

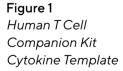
- Detection reagent (50X)-90 µL
- Capture beads (50X)—90 µL
- Lyophilized standard—1 vial
- USB flash drive containing analysis template

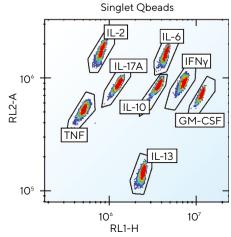
Storage

Store at 2-8 °C

Use

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





Protocol

1. Combine Standards

- 1.1 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 Kit provides 2 cytokine standards: IFNγ and TNFα. 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, IFNγ, and TNFα).
- 1.2 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.

Combine Human T Cell Companion Kit Capture Beads (50X)

2.1 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.

2.2 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.

Combine Human T Cell Companion Kit Detection Reagent (50X)

3.1 To the pre-mixed cytokine detectioncocktail 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

4.1 Follow the protocol for your particular Human T Cell Immunology Kit and configuration.

Reagents Included in Human T Cell Activation Kit

	1 × 96-well	5 × 96-well	1 × 384-well	5 × 384-well
	1IFNγ	5 IFNy	2 IFNy	10 IFNγ
Separate Standards (1 Vial Each)	1TNFa	5 TNFa	2 TNFa	10 TNFa
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 × 96-well	5 × 96-well	1 × 384-well	5 × 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)		Use volumes listed		Use volumes listed
Add volume to the human IFNγ and TNFα Capture	25 μL	for each 1 × 96-well	50 μL	for each 1 × 384-
Beads (pre-mixed)		format and scale		well format and
Companion Detection Reagent (50X) Add volume to the Cytokine Detection Cocktail	25 μL	up as needed for number of plates per day	50 μL	scale up as needed for number of plates per day

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

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