

# Rapid Cytokine Inspector Anti-Cytokine antibodies human

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## Warnings

Reagents contain sodium azide. Under acidic conditions sodium azide yields hydrazoic acid, which is extremely toxic. Azide compounds should be diluted with running water before discarding. These precautions are recommended to avoid deposits in plumbing where explosive conditions may develop.

## 1. Description

**This product is for research use only.**

**Components** 1 mL monoclonal Rapid Cytokine Inspector (RCI) Anti-Cytokine Antibodies, human.

Conjugate	Clone/ Isotype	Order no.
RCI Anti-IFN-γ-PE	45-15/ mouse IgG1	130-097-600
RCI Anti-IFN-γ-APC	45-15/ mouse IgG1	130-097-596
RCI Anti-IL-2-PE	N7.48A/ mouse IgG1	130-099-450
RCI Anti-IL-17A-PE	CZ8-23G1/ mouse IgG1	130-097-599
RCI Anti-IL-17A-APC	CZ8-23G1/ mouse IgG1	130-099-448
RCI Anti-TNF-α-APC	cA2/ human IgG1	130-099-481

**Capacity** 100 tests or up to 10<sup>8</sup> total cells

**Product format** Antibodies are supplied in buffer containing stabilizer and 0.05% sodium azide.

**Storage** Store protected from light at 2–8 °C. Do not freeze. The expiration date is indicated on the vial label.

### 1.1 Background information

The Rapid Cytokine Inspector Anti-Cytokine antibodies, human are optimized for use in combination with Rapid Cytokine Inspector Kits, human, to enable the fast intracellular staining of cytokines produced by activated T cells. The performance of the assay in 96-well cell culture plates enables the analysis of multiple samples in parallel.

### 1.2 Applications

For use in combination with Rapid Cytokine Inspector (RCI) Kits:

	RCI (CD4/CD8 T Cell) Kit (# 130-097-343)	RCI (CD4 T Cell) Kit (# 130-097-341)	RCI (CD8 T Cell) Kit (# 130-097-342)
IFN-γ	RCI Anti-IFN-γ-PE	RCI Anti-IFN-γ-PE	RCI Anti-IFN-γ-PE RCI Anti-IFN-γ-APC
IL-2	RCI Anti-IL-2-PE	RCI Anti-IL-2-PE	RCI Anti-IL-2-PE
IL-17	RCI Anti-IL-17A-PE	RCI Anti-IL-17A-PE	RCI Anti-IL-17A-PE RCI Anti-IL-17A-APC
TNF-α			RCI Anti-TNF-α-APC

## 2. Protocol overview

<b>Stimulation</b>	Plate 10 <sup>6</sup> cells (100 µL) per well. Add antigen or control. After 2 hours of cultivation, add brefeldin A and continue cultivation for additional 4 hours.	
<b>Cell surface staining</b>	Pipette off 80 µL cell culture supernatant. Add 50 µL staining mix containing RCI T Cell Detection Cocktail and RCI Anti-Cytokine antibodies. Shake plate for 2 min and incubate for 8 min at RT.	45 minutes
<b>Fixation</b>	Add 25 µL Inside Fix. Shake plate for 2 min and incubate for 18 min at RT.	
<b>Permeabilization and intracellular staining</b>	Add 25 µL Inside Perm. Shake plate for 2 min and incubate for 8 min at RT.	
<b>Washing step</b>	Add 100 µL of buffer. Centrifuge plate for 5 min at 300xg. Remove supernatant and resuspend cells in 200 µL of buffer.	
<b>Flow cytometric analysis</b>	Proceed to sample acquisition and analysis.	

For a detailed protocol, refer to the data sheet of the respective Rapid Cytokine Inspector Kit.

Refer to [www.miltenyibiotec.com](http://www.miltenyibiotec.com) for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit [www.miltenyibiotec.com](http://www.miltenyibiotec.com) for local Miltenyi Biotec Technical Support contact information.

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