

## APC anti-human IL-13

**Catalog # / Size:** 501908 / 50 µg  
501907 / 100 tests

**Clone:** JES10-5A2

**Isotype:** Rat IgG1, κ

**Immunogen:** COS-expressed, recombinant human IL-13

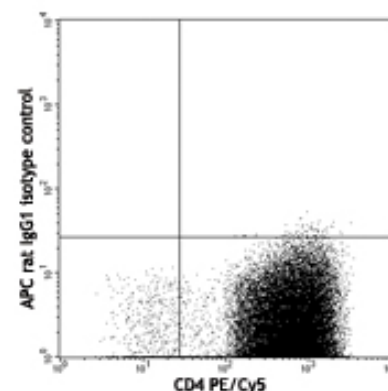
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

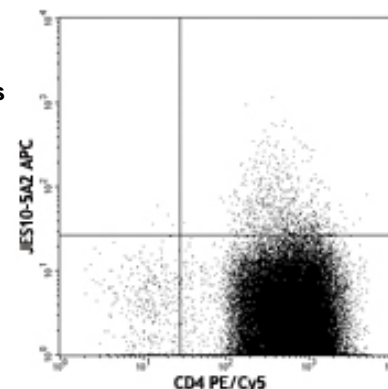
**Formulation:** test size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).  
µg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** test size: lot-specific; µg size: 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Enriched human CD4<sup>+</sup> T cells were stimulated with PMA+ionomycin, then surface stained with CD4 PE/Cy5 and intracellular stained with APC rat IgG1,κ isotype control (top) or APC JES10-5A2 (bottom)



## Applications:

**Applications:** ICFC - *Quality tested*

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** **ELISA or ELISPOT Capture<sup>1,2</sup>:** The purified JES10-5A2 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated Poly5020 antibody (Cat. No. 502001) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.

**Flow Cytometry<sup>3,7</sup>:** The fluorochrome-labeled JES10-5A2 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-13-producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit [www.biolegend.com](http://www.biolegend.com) and click on the support section.

**Neutralization<sup>1</sup>:** The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of human IL-13 bioactivity (Cat. No. 501910).

**Additional reported applications (for the relevant formats) include:** Western blotting, immunohistochemical staining<sup>4-6,8</sup> of paraformaldehyde-fixed, saponin-treated frozen tissue sections, and immunocytochemistry.

- Application References:**
1. McKenzie, A., *et al.* 1994. *Curr. Prot. Immunol.*. John Wiley & Sons. New York. Section 6.18.
  2. Abrams, J. 1995. *Curr. Prot. Immunol.*. John Wiley and Sons, New York. Unit 6.20.
  3. Schaerli, P., *et al.* 2000. *J. Exp. Med.* 192:1553.
  4. Andersson, J., *et al.* 1994. *Immunology* 83:16.
  5. Skansen-Saphir, U., *et al.* 1994. *Eur. J. Immunol.* 24:916.
  6. Andersson, U., *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag.
  7. Gelfand, E. W., *et al.* 2006. *J. Aller. and Clinic. Immunol.* 117:577.
  8. Knorr, C., *et al.* 1999. *Am. J. Pathol.* 155:2019.
  9. Huber, JP., *et al.* 2010. *J. Immunol.* 185:813. PubMed
  10. Neunkirchner, A., *et al.* 2011. *J. Immunol.* 187:4077. PubMed.
  11. Barber JS, *et al.* 2013. *PNAS.* 110:8164. PubMed.

**Description:** IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 lymphocytes. IL-13 shares 30% amino acid sequence homology with IL-4 and demonstrates similar biological activities. The biological activities of IL-13 include: suppression of macrophage cytotoxic activity, upregulation of IL-1RA expression, and suppression of



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proinflammatory cytokine secretion. The JES10-5A2 antibody reacts with human interleukin-13 (IL-13). The JES10-5A2 antibody can neutralize the bioactivity of natural or recombinant IL-13.

- Antigen References:**
1. Fitzgerald, K., *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
  2. Hilton, D., *et al.* 1996. *P. Natl. Acad. Sci. USA* 93:497.
  3. Obiri, N., *et al.* 1995. *J. Biol. Chem.* 270:8797.
  4. Ochensberger, B., *et al.* 1996. *Blood* 88:3028.

<b>Related Products:</b>	<b>Product</b>	<b>Clone</b>	<b>Application</b>
	Cell Staining Buffer		FC, ICC, ICFC
	Fixation Buffer		ICC, ICFC
	Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
	RBC Lysis Buffer (10X)		FC, ICFC
	Brefeldin A Solution (1,000X)		ICFC
	Monensin Solution (1,000X)		ICFC
	APC Rat IgG1, $\kappa$ Isotype Ctrl	RTK2071	FC, ICFC



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