

## Alexa Fluor® 488 anti-human IL-4

**Catalog # / Size:** 500710 / 100 tests

**Clone:** 8D4-8

**Isotype:** Mouse IgG1, κ

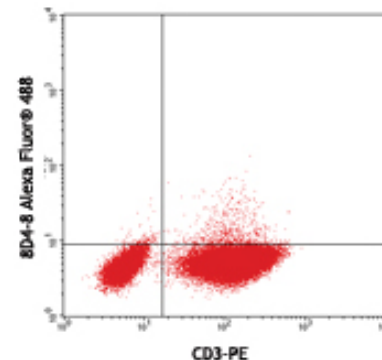
**Immunogen:** Yeast-expressed, recombinant human IL-4

**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

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

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



*PMA+ionomycin-stimulated (6 hours) human peripheral blood lymphocytes surface stained with CD3 PE, then intracellular stained with 8D4-8 Alexa Fluor® 488 (top), bottom data shows the 8D4-8 Alexa Fluor® 488 staining can be specifically blocked by pre-incubation with purified 8D4-8 antibody.*

## Applications:

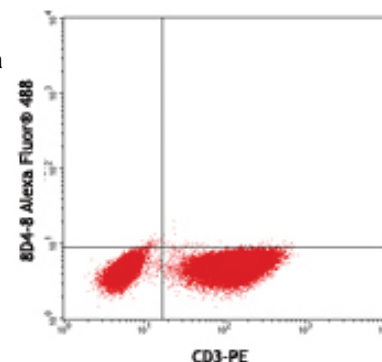
**Applications:** ICFC - *Quality tested*

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

\*\* Alexa Fluor® 488 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 488 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

- Application References:**
1. Bird C, *et al.* 1991. *Cytokine*. 3:562.
  2. Prussin C, *et al.* 1995. *J. Immunol. Meth.* 188:117.
  3. Hickie I, *et al.* 2001. *Twin Res.* 4:94.
  4. Heeger P, *et al.* 1999. *J. Immunol.* 163:2267.
  5. Jason J, *et al.* 1999. *Clin. Diagn. Lab Immunol.* 6:73.
  6. Andersson U, *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag.
  7. Gong G, *et al.* 2008. *Blood* PubMed
  8. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)



**Description:** IL-4 is a pleiotropic cytokine that is produced by activated T cells mast cells and basophils. IL-4 elicits many different biological responses, but has two dominant functions. The first is regulating differentiation of naïve CD4<sup>+</sup> T cell to the Th2 type. Th2 cells produce IL-4, IL-5, IL-10 and IL-13, which tend to favor a humoral immune response while suppressing a cell-mediated immune response controlled by Th1 cells. The second is regulating IgE and IgG1 production by B cells. The 8D4-8 antibody can neutralize the bioactivity of natural or recombinant IL-4.

- Antigen References:**
1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.
  2. Boulay J, *et al.* 1992. *Curr. Opin. Immunol.* 4:294.
  3. Dullens H, *et al.* 1991. *In vivo* 5:567.
  4. Paul W. 1991. *Blood*. 77:1859.

### Related Products:Product

Alexa Fluor® 488 Mouse IgG1, κ Isotype Ctrl (ICFC)  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 MOPC-21

**Application**  
 ICFC, IF  
 FC, ICC, ICFC  
 FC, ICFC



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