

Alexa Fluor® 700 anti-mouse IL-17A

Catalog # / Size: 506914 / 100 µg

Clone: TC11-18H10.1

Isotype: Rat IgG1, κ

Immunogen: *E. coli*-expressed, recombinant mouse IL-17A

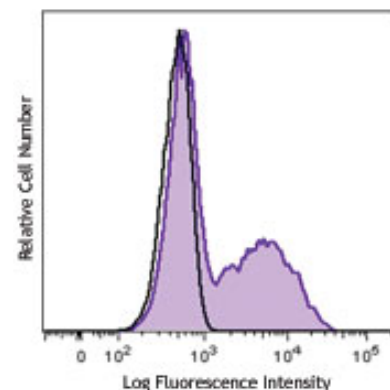
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

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



6 hours PMA (20 ng/ml) + ionomycin (1 µg/ml) -stimulated mouse thymoma cell line EL-4 (in the presence of monensin) were intracellularly stained with IL-17 (clone TC11-18H10.1) Alexa Fluor® 700 (filled histogram) or rat IgG1, κ Alexa Fluor® 700 isotype control (open histogram).

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 ≤0.25 µg per million cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

** Alexa Fluor® 700 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 700 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 Notes: **ELISA Capture^{3,4} and ELISPOT Capture⁵:** The purified TC11-18H10.1 antibody is useful as the capture antibody in a sandwich ELISA, when used in conjunction with the biotinylated TC11-8H4 antibody (Cat. No. 507002) as the detecting antibody and recombinant mouse IL-17 (Cat. No. 564101) as the standard.

Flow Cytometry^{2-4,7,8,11,12}: The fluorochrome-labeled TC11-18H10.1 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-17 -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Neutralization^{6,9}: The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse IL-17 bioactivity *in vivo* and *in vitro* (Cat. No. 506906).

Additional reported applications (for the relevant formats) include: Western blotting.

Application References:

- Kennedy J, *et al.* 1996. *J. Interferon Cytokine Res.* 16:611.
- Schubert D, *et al.* 2004. *J. Immunol.* 172:4503. (FC)
- Infante-Duarte C, *et al.* 2000. *J. Immunol.* 165:6107. (FC, ELISA Capture)
- Harrington LE, *et al.* 2005. *Nature Immunol.* doi:10.1038/ni1254. (FC, ELISA Capture)
- Nekrasova T, *et al.* 2005. *J. Immunol.* 175:2734. (ELISPOT Capture)
- Yen D, *et al.* 2006. *J. Clin. Invest.* 116:1310. (Neut)
- Ehrichtou D, *et al.* 2007. *J. Exp. Med.* 204:1519. (FC)
- Kang SG, *et al.* 2007. *J. Immunol.* 179:3724. (FC)
- Smith E, *et al.* 2008. *J. Immunol.* 181:1357. (Neut) PubMed
- Neufert C, *et al.* 2007. *Eur. J. Immunol.* 37:1809. PubMed
- Wang C, *et al.* 2009. *Mucosal Immunol* 2:173. (FC) PubMed
- Cui Y, *et al.* 2009. *Invest. Ophthalm. Vis. Sci.* 50:5811. (FC) PubMed
- Kivisäkk P, *et al.* 2009. *Ann. Neurol.* 65:457. PubMed
- Cooney LA, *et al.* 2011. *J. Immunol.* 187:4440. PubMed

Description: IL-17, also known as CTLA-8, is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpes virus Saimiri. Recent study has shown that IL-17 is produced by Th cells (Th17) that are distinct from the traditional Th1- and Th2-cell subsets. IL-23 plays an important role in triggering



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IL-17 production. Both recombinant and natural IL-17 have been shown to exist as disulfide linked homodimers. IL-17 exhibits multiple biological activities on a variety of cells including: the induction of IL-6 and IL-8 production in fibroblasts, activation of NF- κ B, and costimulation of T cell proliferation. IL-17 is an essential inflammatory mediator in the development of autoimmune diseases. Neutralization of IL-17 with monoclonal antibody is able to ameliorate the disease course.

Antigen References:

1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
2. Numasaki M, *et al.* 2002. *Blood* 101:2620.
3. Fossiez F, *et al.* 1996. *J. Exp. Med.* 183:2593.
4. Yao Z, *et al.* 1997. *Cytokine* 9:794.
5. Dong C. 2006. *Nat. Rev. Immunol.* 6:329.
6. Hofstetter HH, *et al.* 2005 *Cell. Immunol.* 237:123.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	Fixation Buffer		ICC, ICFC
	Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
	Brefeldin A Solution (1,000X)		ICFC
	Monensin Solution (1,000X)		ICFC
	Alexa Fluor® 700 Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC



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