

Product Data Sheet

102

Log Fluoresence Intensity

PMA (20 ng/ml) + ionomycin (1

 $\mu g/ml$) -stimulated (6 hours +

103

104

Relative Cell Number

100

10

Alexa Fluor® 488 anti-mouse IL-17A

Catalog # / Size:	506909 / 25 μg 506910 / 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® 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.
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.

Applications:

monensin, 2 μ M) mouse thymoma cell line EL-4 intracellularly stained Applications: ICFC - Quality tested with TC11-18H10.1 Alexa Fluor® 488 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 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 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. 1. Kennedy J, et al. 1996. J. Interferon Cytokine Res. 16:611. 2. Schubert D, et al. 2004. J. Immunol. 172:4503. (FC) **Application References:** Schubert D, et al. 2004. J. Immunol. 172:4505. (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)
Ehirchiou 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 11. Wang C, et al. 2009. Mucosal Immunol 2:173. (FC) PubMed 12. Cui Y, et al. 2009. Invest. Ophth. Vis. Sci. 50:5811. (FC) PubMed 13. Kivisäkk P, et al. 2009. Ann. Neurol. 65:457. PubMed 14. Cooney LA, et al. 2011. J. Immunol. 187:4440. PubMed 15. Lee Y, et al. 2012. NAt Immunol. 13:991. 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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*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use. 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-κB, 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

Cell Staining Buffer Fixation Buffer Permeabilization Wash Buffer (10X)

Brefeldin A Solution (1,000X) Monensin Solution (1,000X) Alexa Fluor® 488 Rat IgG1, κ Isotype RTK2071 Ctrl

Application FC, ICC, ICFC ICC, ICFC ICC, ICFC, IHC ICFC ICFC FC, ICFC



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