

Product Data Sheet

LEAF™ Purified anti-mouse IL-17A

Catalog # / Size: 506905 / 50 µg
506906 / 500 µg
506923 / 1 mg

Clone: TC11-18H10.1

Isotype: Rat IgG1, κ

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

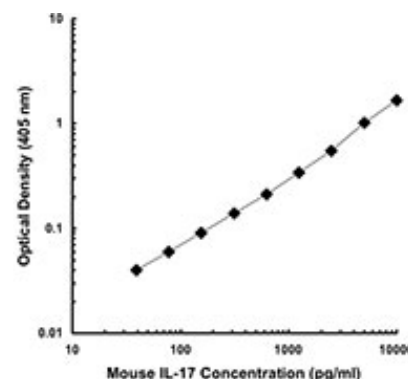
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The IL-17A antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture - *Quality tested*
ELISPOT Capture, Neut, WB - *Reported in the literature*
CyTOF® - *Validated*

Recommended Usage: Each lot of this IL-17A antibody is quality control tested by ELISA assay. For ELISA capture, a concentration range of 2-6 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-17 recombinant protein ranging from 4000 to 30 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

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^{6,9,15}: 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)
 - Ehricht 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. Ophth. 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
 - Ustyugova IV, *et al.* 2012. *Inflamm. Bowel. Dis.* 18:333. (Neut) 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 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.



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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
	LEAF™ Purified Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC, WB, IP, ICC, IF, IHC, FA



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