

LEAF™ Purified anti-mouse IL-17A

Catalog # / Size: 507004 / 500 µg

Clone: TC11-8H4

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 antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: ELISA - *Quality tested*
WB - *Reported in the literature*

Application Notes:

ELISA^{3,4} and ELISPOT⁵ Detection: The biotinylated TC11-8H4 antibody is useful as a detection antibody for a sandwich ELISA assay, when used in conjunction with Purified TC11-18H10 antibody (Cat. No. 506901) as the capture antibody, and with recombinant mouse IL-17 (Cat. No. 564101) as the standard.

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

Application References:

1. Kennedy J, *et al.* 1996. *J. Interferon Cytokine Res.* 16:611.
2. Schwarzenberger P, *et al.* 1998. *J. Immunol.* 161:6383.
3. Infante-Duarte C, *et al.* 2000. *J. Immunol.* 165:6107.
4. Harrington LE, *et al.* 2005. *Nature Immunol.* doi:10.1038/ni1254.
5. Nekrasova T, *et al.* 2005. *J. Immunol.* 175:2734.

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. The TC11-8H4 antibody reacts with mouse interleukin-17 (IL-17).

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(4):329.
6. Hofstetter HH, *et al.* 2005 *Cell. Immunol.* 237(2):123.

Related Products:

Product
TMB Substrate Reagent Set
ELISA Assay Diluent (5X)
LEAF™ Purified Rat IgG1, κ Isotype Ctrl

Clone

RTK2071

Application

ELISA
ELISA
FC, ICFC, WB, IP, ICC, IF,
IHC, FA
ELISA
ELISA
ELISA



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*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.