

Product Data Sheet

Biotin anti-mouse IL-17A

Catalog # / Size: 507001 / 50 µg
507002 / 500 µg

Clone: TC11-8H4

Isotype: Rat IgG1, κ

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

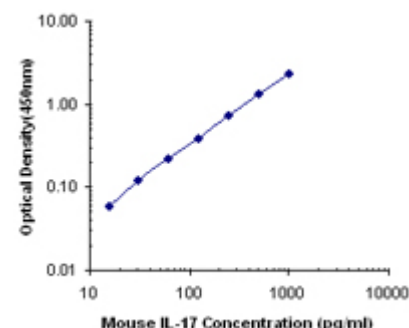
Reactivity: Mouse

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

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. **Do not freeze.**



Applications:

Applications: ELISA Detection, ELISPOT Detection

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.5-2 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^{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:

- Kennedy J, *et al.* 1996. *J. Interferon Cytokine Res.* 16:611.
- Schwarzenberger P, *et al.* 1998. *J. Immunol.* 161:6383.
- Infante-Duarte C, *et al.* 2000. *J. Immunol.* 165:6107.
- Harrington LE, *et al.* 2005. *Nature Immunol.* doi:10.1038/ni1254.
- Nekrasova T, *et al.* 2005. *J. Immunol.* 175:2734.
- Yu H, *et al.* 2010. *Infect immun.* 78:2272. 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. The TC11-8H4 antibody reacts with mouse interleukin-17 (IL-17).

Antigen References:

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

Related Products:

Product
Recombinant Mouse IL-17A
HRP Avidin
TMB Substrate Reagent Set
ELISA Assay Diluent (5X)
Purified anti-mouse IL-17A

Clone

Avidin

TC11-18H10.1

Application

BA, ELISA
ELISA, ELISPOT, IHC, WB
ELISA
ELISA
ELISA Capture, ELISPOT
Capture WB, CyTOF®



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