

Technical Data Sheet

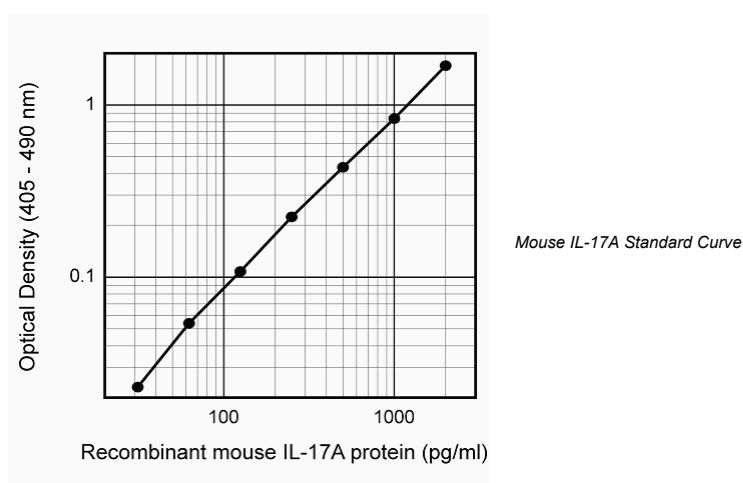
Purified Rat Anti-Mouse IL-17A

Product Information

Material Number:	555068
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	TC11-18H10
Immunogen:	Recombinant Mouse IL-17 Protein
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The TC11-18H10 antibody reacts with recombinant and natural mouse IL-17A proteins. IL-17A, also known as CTLA-8, is a T cell-derived cytokine that promotes inflammatory responses. Mouse IL-17A is a proinflammatory cytokine that can induce the release of IL-6 by mouse stromal cells. It has been shown to support the growth of hemopoietic progenitors in vitro; it can also stimulate granulopoiesis in vivo. The TC11-18H10 antibody has been reported to neutralize IL-17A activity. Recent studies have shown that IL-17A is produced by a unique subset of Th17 cells that develop along a pathway distinct from the Th1- and Th2- cell differentiation pathways. The mouse IL-17A cDNA was isolated from a cDNA library generated from TCR $\alpha\beta$ +CD4-CD8-thymocytes.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4°C.

Application Notes

Application

ELISA Capture	Routinely Tested
Intracellular block/flow cytometry	Tested During Development
Neutralization	Tested During Development
Western blot	Reported

Recommended Assay Procedure:

BD Biosciences

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United States 877.232.8995 Canada 888.259.0187 Europe 32.53.720.550 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

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Recommended Assay Procedure:

ELISA Capture: The purified TC11-18H10 antibody (Cat. No. 555068) is useful as a capture antibody for a sandwich ELISA for measuring mouse IL-17A protein levels. Purified TC11-18H10 antibody can be paired with the biotinylated TC11-8H4 (Cat. No. 555067) antibody as the detecting antibody, with recombinant mouse IL-17A protein as the standard. The purified TC11-18H10 antibody should be titrated from 0.5 µg/ml to 2.0 µg/ml to determine its optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of mouse IL-17A ranging from ~2,000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

Note: This ELISA pair shows no cross-reactivity with any of the cytokines or chemokines tested (e.g., mouse IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-12 p70, IL-15, GM-CSF, IFN-γ, MCP-1, TCA3, TNF; human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, IFN-γ, lymphotactin, MCP-1, MCP-2, MIP-1α, MIP-1β, NT-3, PDGF-AA, sCD23, SCF, TNF, LT-α, VEGF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN-γ, TNF).

Western Blot: The TC11-1810 antibody has been reported to be useful for Western Blotting. Please note that this application is not routinely tested at BD Biosciences.

Neutralization: TCII-18H10 has been shown to be a neutralizing antibody. Please note that this application is not routinely tested at BD Biosciences.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555067	Biotin Rat Anti-Mouse IL-17A	0.5 mg	TC11-8H4

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Kennedy J, Rossi DL, Zurawski SM, et al. Mouse IL-17: a cytokine preferentially expressed by alpha beta TCR + CD4-CD8-T cells. *J Interferon Cytokine Res.* 1996; 16(8):611-617.(Biology)
Schwarzenberger P, La Russa V, Miller A, et al. IL-17 stimulates granulopoiesis in mice: use of an alternate, novel gene therapy-derived method for in vivo evaluation of cytokines. *J Immunol.* 1998; 161(11):6383-6389.(Biology)