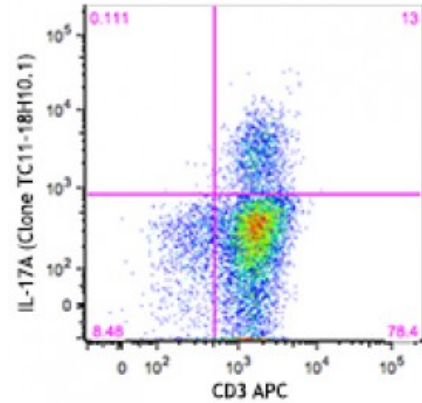


Brilliant Violet 711™ anti-mouse IL-17A

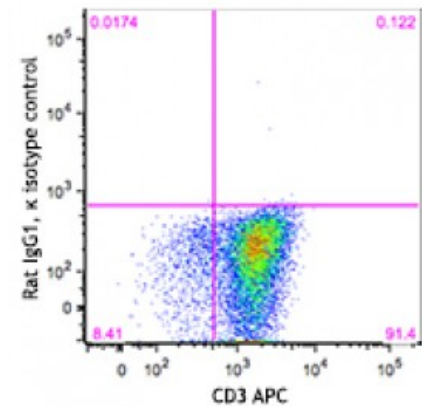
Catalog # / Size: 3134705 / 50 µg
Clone: TC11-18H10.1
Isotype: Rat IgG1, κ
Immunogen: *E. coli* expressed, recombinant mouse IL-17A
Reactivity: Mouse
Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration: Lot-specific



Th17-polarized mouse CD4+ lymphocytes were stimulated with PMA + Ionomycin for in the presence of monensin (4 hours), fixed, permeabilized, and then stained with CD3 APC and IL-17A (clone TC11-18H10.1) Brilliant Violet 711™ (top) or rat IgG1, &kappa

Applications:

Applications: Flow Cytometry
Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.



Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

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. 576009) as the standard.

Flow Cytometry^{2-4,7,8,11,12}: The TC11-18H10.1 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-17-producing cells within mixed cell populations.

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.

- Application References:**
1. Kennedy J, *et al.* 1996. *J. Interferon Cytokine Res.* 16:611.
 2. Schubert D, *et al.* 2004. *J. Immunol.* 172:4503. (ICFC)
 3. Infante-Duarte C, *et al.* 2000. *J. Immunol.* 165:6107. (ICFC, ELISA Capture)
 4. Harrington LE, *et al.* 2005. *Nature Immunol.* doi:10.1038/ni1254. (ICFC, ELISA Capture)
 5. Nekrasova T, *et al.* 2005. *J. Immunol.* 175:2734. (ELISPOT Capture)
 6. Yen D, *et al.* 2006. *J. Clin. Invest.* 116:1310. (Neut)
 7. Ehrchiou D, *et al.* 2007. *J. Exp. Med.* 204:1519. (ICFC)
 8. Kang SG, *et al.* 2007. *J. Immunol.* 179:3724. (ICFC)
 9. Smith E, *et al.* 2008. *J. Immunol.* 181:1357. (Neut) [PubMed](#)
 10. Neufert C, *et al.* 2007. *Eur. J. Immunol.* 37:1809. [PubMed](#)
 11. Wang C, *et al.* 2009. *Mucosal Immunol* 2:173. (ICFC) [PubMed](#)
 12. Cui Y, *et al.* 2009. *Invest. Ophth. Vis. Sci.* 50:5811. (ICFC) [PubMed](#)
 13. Kivisäkk P, *et al.* 2009. *Ann. Neurol.* 65:457. [PubMed](#)
 14. Cooney LA, *et al.* 2011. *J. Immunol.* 187:4440. [PubMed](#)
 15. Ma Y, *et al.* 2012. *PLoS One.* 7:e40763. [PubMed](#)
 16. Murakami R, *et al.* 2013. *PLoS One.* 8:73270. [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. 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.

- 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,