SONY

Product Data Sheet

Alexa Fluor® 647 anti-mouse IL-17F

Catalog # / Size: 3185520 / 100 µg

Clone: 8F5.1A9

Isotype: Mouse IgG1, κ

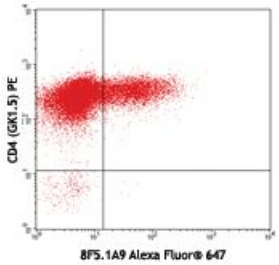
Immunogen: Mouse IL-17F-OVA

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5



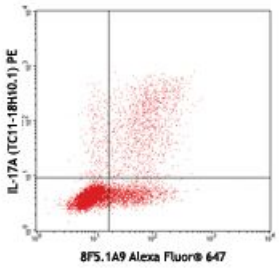
PdBU/ionomycin-stimulated (5 hours) Th17-polarized CD4$^+$ T cells from C57BL/6 mouse lymph nodes surface stained with CD4 (GK1.5) PE, then intracellularly stained with 8F5.1A9 Alexa Fluor® 647

Applications:

Applications: Intracellular Staining for 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.



PdBU/ionomycin-stimulated (5 hours) Th17-polarized CD4$^+$ T cells from C57BL/6 mouse lymph nodes intracellularly stained with IL-17A (TC11-18H10.1) PE and 8F5.1A9 Alexa Fluor® 647

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.
Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Application Notes:

Other Detection: The biotinylated 8F5.1A9 antibody is useful as a detection antibody for a sandwich Other assay, when used in conjunction with purified TC11-18H10.1 (Cat. No. 506901 or 506906) antibody as the capture antibody and recombinant mouse IL-17A/F (Cat. No. 580809) as the standard.

Flow Cytometry: The fluorochrome-labeled 8F5.1A9 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-17F-producing cells within mixed cell populations.

Note: For testing mouse IL-17F in serum, plasma or supernatant, Other LEGEND MAX™ Kits (Cat. No. 436107 & 436108) are specially developed and recommended.

Description:

Interleukin 17F (IL-17F) is a 37 kD IL-17 family member. The IL-17 family consists of six members including IL-17 (also called IL-17A), IL-17B, IL-17C, IL-17D, IL-17E (also called IL-25), and IL-17F. IL-17F shares the strongest similarity to IL-17A and forms a homodimer or heterodimer with IL-17A. It is produced by Th17 cells, mast cells, basophils, and epithelial cells. IL-17F is an important regulator of inflammatory responses. It is involved in host defense against mucoepithelial infection by Staphylococcus aureus and Citrobacter rodentium. Overexpression of the IL-17F gene in the airways of mice is associated with airway neutrophilia, the induction of many cytokines, an increase in airway hyperreactivity, and mucus hypersecretion. IL-17F is also involved in cancer immunity and autoimmune responses. IL-17F, like IL-17A, depends on IL-17R for its signaling *in vitro* and *in vivo*. P38 MAPK, ERK1/2, Act1 (NF-kB activator protein 1), and TRAF6 are involved in IL-17F signaling.

Antigen References:

1. Dong C. 2008. *Immunol. Rev.* 226:80.
2. Kolls JK, *et al.* 2004. *Immunity* 21:467.
3. Aggarwal S, *et al.* 2002. *J. Leukoc. Biol.* 71:1.
4. Yang XO, *et al.* 2008. *J. Exp. Med.* 205:1063.
5. Ishigame H, *et al.* 2009. *Immunity* 30:108.
6. Hu Y, *et al.* 2010. *J. Immunol.* 184:4307.

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