

Purified anti-mouse IL-17A (Maxpar[®] Ready) Antibody

Catalog# / Size	506935 / 100 µg
Clone	TC11-18H10.1
Regulatory Status	RUO
Other Names	Interleukin-17, Cytotoxic T lymphocyte-associated antigen 8 (CTLA-8)
Isotype	Rat IgG1, κ
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-17 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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	<i>E. coli</i> expressed, recombinant mouse IL-17A
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	ELISA Capture - Quality tested CyTOF[®] - Verified
Recommended Usage	This product is suitable for use with the Maxpar[®] Metal Labeling Kits . For metal labeling using Maxpar [®] Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar [®] Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar [®] User Guide when conjugating Maxpar [®] Ready antibodies.
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 <i>in vivo</i> and <i>in vitro</i> (Cat. No. 506906).
Additional Product Notes	Maxpar [®] is a registered trademark of Standard BioTools Inc.
Application References	1. Kennedy J, <i>et al.</i> 1996. <i>J. Interferon Cytokine Res.</i> 16:611. 2. Schubert D, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:4503. (ICFC) 3. Infante-Duarte C, <i>et al.</i> 2000. <i>J. Immunol.</i> 165:6107. (ICFC, ELISA Capture) 4. Harrington LE, <i>et al.</i> 2005. <i>Nature Immunol.</i> doi:10.1038/ni1254. (ICFC, ELISA Capture) 5. Nekrasova T, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:2734. (ELISPOT Capture)
(PubMed link indicates BioLegend citation)	

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](#)
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12. Cui Y, *et al.* 2009. *Invest. Ophth. Vis. Sci.* 50:5811. (ICFC) [PubMed](#)
13. Kivisákk 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](#)

Product Citations

1. McDonald B, *et al.* 2020. *Cell Host Microbe.* 28(5):660-668.e4. [PubMed](#)

RRID

AB_2562850 (BioLegend Cat. No. 506935)

Antigen Details

Structure	Cytokine; dimer; 15 kD (Mammalian).
Bioactivity	Secretion of IL-6, IL-8, G-CSF, prostaglandin E2 by epithelial, endothelial or fibroblastic cells; stimulates cell migration, cord formation, and IL-6 secretion by stromal cells
Cell Sources	CD4 ⁺ memory T cells
Cell Targets	Fibroblasts, epithelial and endothelial cells, stromal cells
Receptors	IL-17R (CD217)
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Fitzgerald K, <i>et al.</i> Eds. 2001. <i>The Cytokine FactsBook</i>. Academic Press San Diego. 2. Numasaki M, <i>et al.</i> 2002. <i>Blood</i> 101:2620. 3. Fossiez F, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 183:2593. 4. Yao Z, <i>et al.</i> 1997. <i>Cytokine</i> 9:794. 5. Dong C. 2006. <i>Nat. Rev. Immunol.</i> 6:329. 6. Hofstetter HH, <i>et al.</i> 2005 <i>Cell. Immunol.</i> 237:123.
Gene ID	16171

Related Protocols

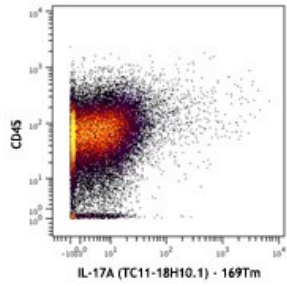
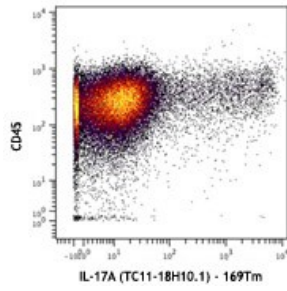
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

Other Formats

PE anti-mouse IL-17A, Purified anti-mouse IL-17A, FITC anti-mouse IL-17A, Alexa Fluor® 488 anti-mouse IL-17A, Alexa Fluor® 647 anti-mouse IL-17A, Alexa Fluor® 700 anti-mouse IL-17A, APC anti-mouse IL-17A, Pacific Blue™ anti-mouse IL-17A, PerCP/Cyanine5.5 anti-mouse IL-17A, PE/Cyanine7 anti-mouse IL-17A, Brilliant Violet 421™ anti-mouse IL-17A, Brilliant Violet 605™ anti-mouse IL-17A, Brilliant Violet 650™ anti-mouse IL-17A, Brilliant Violet 785™ anti-mouse IL-17A, Brilliant Violet 510™ anti-mouse IL-17A, Purified anti-mouse IL-17A (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse IL-17A, APC/Cyanine7 anti-mouse IL-17A, Brilliant Violet 711™ anti-mouse IL-17A, PerCP anti-mouse IL-17A, Ultra-LEAF™ Purified anti-mouse IL-17A

Product Data



Mouse EL4 T cells were incubated for 5 hours in media alone (bottom) or with PMA and Ionomycin (top) in the presence of monensin and brefeldin A. Cells were then fixed, permeabilized, and stained with ¹⁴⁷Sm-anti-CD45 (30-F11) and ¹⁶⁹Tm-anti-IL17A (TC11-18H10.1). Data provided by DVS Sciences.

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