

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-421-NA

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse and rat IL-17 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human IL-17A is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse IL-17 Thr22-Ala158 Accession # Q62386
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

DATA

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample	
Western Blot	0.1 µg/mL	Recombinant Mouse IL-17 (Catalog # 421-ML)	
Intracellular Staining by Flow Cytometry	2.5 μg/10 ⁶ cells	See Below	
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.		
Neutralization	Measured by its ability to neutralize IL-17-induced IL-6 secretion in the NIH-3T3 mouse embryonic fibroblast cell line. Yao, Z. <i>et al.</i> (1995) Immunity 3 :811. The Neutralization Dose (ND ₅₀) is typically 0.05-0.25 µg/mL in the presence of 10 ng/mL Recombinant Mouse IL-17.		





Detection of IL-17 in EL-4 Mouse Cell Line by Flow Cytometry. EL-4 mouse lymphoblast cell line was treated for 16 hours with 50 ng/mL PMA then stained with Goat Anti-Mouse IL-17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-421-NA, filled histogram) or isotype control antibody (Catalog # Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # F0107). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.



IL-6 Secretion Induced by IL-17 and Neutralization by Mouse IL-17 Antibody. Recombinant Mouse IL-17 (Catalog # Catalog # 421-ML) stimulates IL-6 secretion in the NIH-3T3 mouse embryonic fibroblast cell line in a dose dependent manner (orange line), as measured by the Mouse IL-6 Quantikine ELISA Kit (Catalog # Catalog # M6000B). IL-6 secretion elicited by Recombinant Mouse IL-17 (10 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse IL-17 Antigen Affinitypurified Polyclonal Anti-body (Catalog # AF-421-NA). The ND₅₀ is typically 0.05-0.25 µg/mL.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	

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Mouse IL-17/IL-17A Antibody

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BACKGROUND

Interleukin 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 herpesvirus Saimiri. cDNA clones encoding IL-17 have been isolated from activated rat, mouse, and human T cells. Mouse IL-17 cDNA encodes a 158 amino acid (aa) residue precursor protein with a 21 amino acid residue signal peptide that is cleaved to yield the 137 aa residue mature IL-17. Both recombinant and natural IL-17 have been shown to exist as disulfide linked homodimers. At the amino acid level, mIL-17 shows 57% and 87% sequence identity with herpesvirus and rat IL-17, respectively. An IL-17 specific mouse cell surface receptor (IL-17 R) has been cloned. While the expression of IL-17 mRNA is restricted to activated alpha beta TCR⁺CD4⁻CD8⁻T cells, the expression of mIL-17 R mRNA has been detected in virtually all cells and tissues tested. IL-17 exhibits multiple biological activities on a variety of cells including: the induction of IL-6 and IL-8 production in fibroblasts; the enhancement of surface expression of ICAM-1 in fibroblasts; activation of NF-kB and costimulation of T cell proliferation.

References:

- 1. Kennedy, J. et al. (1996) J. Interferon Cytokine Res. 16:611.
- 2. Yao, Z. et al. (1995) J. Immunol. 155:5483.
- 3. Yao, Z. et al. (1995) Immunity 3:811.
- 4. Rouvier, E. et al. (1993) J. Immunol. 150:5445.

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