Mouse IL-17B Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1709

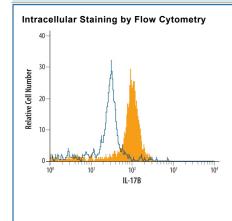
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse IL-17B in ELISAs and Western blots. In sandwich immunoassays, approximately 40% cross-reactivity with recombinant human IL-17B is observed and less than 0.3% cross-reactivity with recombinant mouse (rm) IL-17, rmIL-17C, rmIL-17D, rmIL-17E, and rmIL-17F is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant mouse IL-17B His21-Phe180 Accession # Q9QXT6		
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.		

APPLICATIONS

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-17B (Catalog # 1709-ML)
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Mouse IL-17B Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 μg/mL	Mouse IL-17B Antibody (Catalog # AF1709)
ELISA Detection	0.1-0.4 μg/mL	Mouse IL-17B Biotinylated Antibody (Catalog # BAF1709)
Standard		Recombinant Mouse IL-17B (Catalog # 1709-ML)
Blockade of Receptor-ligand Interaction	Recombinant Mous	SA, 0.4 - 2 μg/mL of this antibody will block 50% of the binding of 10 μg/mL of biotinylated e IL-17βR Fc Chimera to immobilized Recombinant Mouse IL-17B (Catalog # 1709-ML) coated at ell). At 30 μg/mL, this antibody will block >90% of the binding.

DATA



Detection of IL-17B in M-NFS-60 Mouse Cell Line by Flow Cytometry.

M-NFS-60 mouse myelogenous leukemia lymphoblast cell line was stained with Goat Anti-Mouse IL-17B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1709, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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.





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BACKGROUND

The Interleukin 17 (IL-17) family proteins, comprising six members (IL-17, IL-17B through IL-17F), are secreted, structurally related proteins that share a conserved cystine-knot fold near the C-terminus, but have considerable sequence divergence at the N-terminus (1, 2). With the exception of IL-17B, which exists as a non-covalently linked dimer, all IL-17 family members are disulfide-linked dimers (3). IL-17 family proteins are pro-inflammatory cytokines that induce local cytokine production and are involved in the regulation of immune functions (1, 2). Two receptors (IL-17 R and IL-17B R), which are activated by IL-17 family members have been identified. In addition, at least three additional orphan type I transmembrane receptors with homology to IL-17 R, including IL-17 RC, IL-17 RD, and IL-17 RE, have also been reported (1-4). Mouse IL-17B cDNA encodes a 180 amino acid residue (aa) protein with a putative 20 as signal peptide (5). Mouse and human IL-17B share 88% as sequence identity. Among IL-17 family members, mouse IL-17B is most closely related to mouse IL-17D, sharing 33% as sequence homology. IL-17B is expressed highly in spinal cord, and at lower levels in brain, kidney, lung, small intestine, prostate, testes, pancreas, adrenal gland and trachea (5-7). Expression of IL-17B has also been detected in chondrocytes in articular cartilage (2). IL-17B binds the IL-17B receptor but not IL-17 R and exhibits bioactivities distinct from those of IL-17 (5, 6).

References:

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- 2. Moseley, T.A. et al. (2003) Cytokine & Growth Factor Rev. 14:155.
- 3. Hymowitz, S.G. et al. (2001) EMBO J. 20:5332.
- 4. Haudenschild, D. et al. (2002) J. Biol. Chem. 277:4309.
- 5. Shi, Y. et al. (2000) J. Biol. Chem. 275:19167.
- 6. Li, H. et al. (2000) Proc. Natl. Acad. Sci. USA 97:773.



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