

## Mouse IL-17B Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1709

| 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  |  |  |
| Formulation        | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.  |  |  |

| rease Note: Optimal utulions should be determined by each abbitatory for each application. General Protocols are available in the Technical Information Section on our website. |                              |  |  |
|---|------------------------------|--|--|
|   | Recommended<br>Concentration | Sample   |  |
| Western Blot  | 0.1 μg/mL                    | Recombinant Mouse IL-17B (Catalog # 1709-ML)           |  |
| 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)           |  |

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

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 noncovalently 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 RL (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 aa signal peptide (5). Mouse and human IL-17B share 88% aa sequence identity. Among IL-17 family members, mouse IL-17B is most closely related to mouse IL-17D, sharing 33% aa 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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- Hymowitz, S.G. et al. (2001) EMBO J. 20:5332.
- Haudenschild, D. et al. (2002) J. Biol. Chem. 277:4309.
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