

#9584 Store at -20C

## Mouse Interleukin-17B (mIL-17B)


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**For Research Use Only. Not for Use in Diagnostic Procedures.**
**MW (kDa):**  
18

**UniProt ID:**  
#Q9QXT6

**Entrez-Gene Id:**  
56069

### Background

IL-17B is a member of the IL-17 family of structurally related proteins (1). Unlike other IL-17 family members, IL-17B is a non-covalently linked homodimer (1,2). IL-17B is expressed by chondrocytes and neurons, and binds to the IL-17RB receptor (1-4). Human IL-17B has been shown to induce TNF- $\alpha$  and IL-1 $\beta$  from monocytic THP-1 cells and may be involved in neutrophil recruitment *in vivo* (3). However, the exact biological functions of IL-17B remain elusive.

### Endotoxin

Less than 0.01 ng endotoxin/1  $\mu$ g mIL-17B.

### Purity

>98% as determined by SDS-PAGE of 6  $\mu$ g reduced (+) and non-reduced (-) recombinant mIL-17B. All lots are greater than 98% pure.

### Source / Purification

Recombinant mouse IL-17B (mIL-17B) His21-Phe180 (Accession #NP\_062381) was produced in *E. coli* at Cell Signaling Technology.

### Bioactivity

The activity of mIL-17B was assessed by its ability to bind to IL-17RB in a functional ELISA. The concentration at which half-maximal binding was observed for each lot was 0.1-1.0  $\mu$ g/ml.

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### Background References

1. Iwakura, Y. et al. (2011) *Immunity* 34, 149-62.
2. Shi, Y. et al. (2000) *J Biol Chem* 275, 19167-76.
3. Moore, E.E. et al. (2002) *Neuromuscul Disord* 12, 141-50.
4. Li, H. et al. (2000) *Proc Natl Acad Sci U S A* 97, 773-8.

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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