## Mouse IL-17C Antibody

Monoclonal Rat IgG<sub>2A</sub> Clone # 311523 Catalog Number: MAB2306

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IL-17C in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) IL-17, rmIL-17B, rmIL-17D, rmIL-17F, or recombinant human IL-17C is observed.
Source	Monoclonal Rat IgG <sub>2A</sub> Clone # 311523
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant mouse IL-17C His15-Gln194 Accession # NP_665833
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 as a 0.2 µm filtered solution in PBS.
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 Sample Concentration
Western Blot	1 μg/mL Recombinant Mouse IL-17C (Catalog # 2306-ML)
PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 0.5 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.

## 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 cysteine-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 RL (IL-17 RD), and IL-17 RE, have also been reported (1 - 4). Mouse IL-17C cDNA encodes a 194 amino acid (aa) protein with a putative 14 aa signal peptide (5). Although there are no potential N-linked glycosylation sites, it is reportedly glycosylated (6). IL-17C shares from 15% - 30% as sequence identity with other IL-17 family members. Mouse and human IL-17C share 83% as sequence identity. IL-17C has a very restricted expression pattern and was detected as a rare expressed sequence tag (EST) in an adult prostate and fetal kidney libraries (2). IL-17C has been shown to stimulate the release of TNF-α and IL-1β from the monocytic cell line THP-1, a property it shares with IL-17B (6, 7). Human IL-17C is active on mouse cells (5).

## References:

- 1. Aggarwal, S. and A.L. Gurney (2002) J. Leukoc. Biol. 71:1.
- 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. Hurst, S.D. et al. (2002) J. Immunology 169:443.
- 5. Li, H. et al. (2000) Proc. Natl. Acad. Sci. USA 97:773.
- 7. Shi, Y. et al. (2000) J. Biol. Chem. 275:19167.

