

Mouse IL-17C Antibody

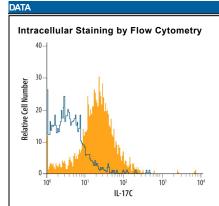
Monoclonal Rat IgG_{2A} Clone # 311522 Catalog Number: MAB23061

DESCRIPTION								
Species Reactivity	Mouse							
Specificity	Detects mouse IL-17C in direct ELISAs.							
Source	Monoclonal Rat IgG _{2A} Clone # 311522							
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 either lyophilized or 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 Concentration	Sample
Intracellular Staining by Flow Cytometry	$2.5~\mu g/10^6~cells$	See Below
CyTOF-ready	Ready to be labeled with conjugation.	using established conjugation methods. No BSA or other carrier proteins that could interfere



Detection of IL-17C in Tramp-C1 Mouse Cell Line by Flow Cytometry. Tramp-C1 mouse prostate cancer cell line was stained with Rat Anti-Mouse IL-17C Monoclonal Antibody (Catalog # MAB23061, filled histogram) or isotype control antibody (Catalog # MAB006, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG F(ab)₂ Secondary Antibody (Catalog # F0105B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

						GE

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.







Mouse IL-17C Antibody

Monoclonal Rat IgG_{2A} Clone # 311522 Catalog Number: MAB23061

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 RC (IL-17 RC), IL-17 RD, and IL-17 RE, have also been reported (1-4). The functions of IL-17 RC, D, and E are not known.

Mouse IL-17C cDNA encodes a 194 amino acid (aa) residues 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% aa sequence identity with other IL-17 family members. Mouse and human IL-17C share 83% aa 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). The receptor of IL-17C has not yet been identified. The IL-17C preparations from R&D Systems have been found to bind immobilized recombinant mouse IL-17B R/Fc in a functional ELISA.

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.
- 6. Li, H. et al. (2000) Proc. Natl. Acad. Sci. USA 97:773.
- 7. Shi, Y. et al. (2000) J. Biol. Chem. 275:19167