

Human IL-17C Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1234

DESCRIPTION				
Species Reactivity	Human			
Specificity	Detects human IL-17C in ELISAs and Western blots. In sandwich immunoassays, approximately 10% cross-reactivity with recombinant mouse (rm) IL-17C is observed and less than 0.3% cross-reactivity with recombinant human (rh) IL-17, rhIL-17B, rhIL-17D, rhIL-17E, and rhIL-17F is observed.			
Source	Polyclonal Goat IgG			
Purification	Antigen Affinity-purified			
Immunogen	E. coli-derived recombinant human IL-17C His19-Val197 Accession # Q9P0M4			
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.			
APPLICATIONS Please Note: Optimal dilut	ions should be determined by e	each laboratory for each applica Recommended Concentration	ation. General Protocols are available in the Technical Information section on our website. Sample	
Western Blot		0.1 μg/mL	Recombinant Human IL-17C (Catalog # 1234-IL)	
Human IL-17C Sandwich Immunoassay			Reagent	
ELISA Capture		2-8 µg/mL	Human IL-17C Antibody (Catalog # MAB1234)	
ELISA Detection		0.1-0.4 μg/mL	Human IL-17C Biotinylated Antibody (Catalog # BAF1234)	
Standard			Recombinant Human IL-17C (Catalog # 1234-IL)	
PREPARATION AND	STORAGE			
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.			

BACKGROUND

Stability & Storage

Shipping

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.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

Human IL-17C cDNA encodes a 197 amino acid (aa) residues protein with a putative 18 aa signal peptide (5). IL-17C shares from 15%-30% aa sequence identity with other IL-17 family members. Human and mouse IL-17C also share 83% aa sequence identity. IL-17C has a very restricted expression pattern and was detected as a rare expressed sequence tag (EST) sequence 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 (5, 6). 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 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. Li, H. et al. (2000) Proc. Natl. Acad. Sci. USA 97:773.
- 6. Shi, Y. et al. (2000) J. Biol. Chem. 275:19167

