

Mouse IL-17D Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF2274

DESCRIPTION	taran da antara da a
Species Reactivity	Mouse
Specificity	Detects mouse IL-17D in Western blots. In Western blots, approximately 20% cross-reactivity with recombinant human IL-17D is observed and less than 1% cross-reactivity with recombinant mouse (rm) IL-17, rmIL-17B, rmIL-17C, rmIL-17E, and rmIL-17F is observed
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse IL-17D Ala25-Arg205 Accession # Q8K4C4
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 diluti	ions 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	0.1 μg/mL Recombinant Mouse IL-17D (Catalog # 2274-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.

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, 6). 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, 6). 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 RD, and IL-17 RE, have also been reported (1 - 6). Mouse IL-17D is synthesized as a 205 amino acid (aa) precursor that contains a putative 24 aa signal peptide and a 181 aa mature segment. The mature region contains two potential N-linked glycosylation sites and eight cysteines, four of which are involved in the formation of a modified cysteine-knot motif (5). The molecule is reported to exist as a 53 kDa disulfide-linked homodimer (2, 5). Given that its predicted homodimeric molecular weight is 40 kDa, the molecule is presumably glycosylated. In the mature region, mouse IL-17D is 88% aa identical to human IL-17D. There is less than 30% aa identity between mouse IL-17D and other members of the mouse IL-17 family. IL-17D is expressed in skeletal muscle, adipose tissue, fetal liver, and heart, plus resting CD4⁺ T cells and CD19⁺ B cells (1). R&D Systems has shown IL-17D binding to a mouse IL-17 R/Fc construct in a functional ELISA. IL-17D is known to induce the production of IL-8, IL-6 and GM-CSF (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.
- Haudenschild, D. et al. (2002) J. Biol. Chem. 277:4309.
- 5. Starnes, T. et al. (2002) J. Immunol. 169:642.
- 6. Kolls, J.K. and A. Linden (2004) Immunity 21:467

