

## Mouse IL-17E/IL-25 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1399

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IL-17E/IL-25 in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant human (rh) IL-17E and recombinant rat IL-17E is observed, and less than 1% cross-reactivity with recombinant mouse (rm) IL-17, rmIL-17B, rhIL-17C, rhIL-17D, and rhIL-17F is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant mouse IL-17E/IL-25 Val17-Ala169 Accession # NP_542767
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.
APPLICATIONS Please Note: Optimal dilution	ons 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-17E/IL-25 (Catalog # 1399-IL)
PREPARATION AND S	STORAGE  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. With the exception of IL-17B, which exists as a non-covalently linked dimer, all IL-17 family members are disulfide-linked dimers. IL-17 family proteins are pro-inflammatory cytokines that induce local cytokine production and are involved in the regulation of immune functions (1, 2).

Mouse IL-17E cDNA encodes a 169 amino acid residues (aa) precursor protein with a putative 16 aa signal peptide (5). Mature mouse IL-17E shares 76% and 91% amino sequence (aa) identity with mature human and rat IL-17E, respectively. Mouse IL-17E also shares from 24% to 32% sequence identity with the other mouse IL-17 family members. IL-17E expression was detected at very low levels by PCR in various peripheral tissues including brain, kidney, lung, prostate, testis, adrenal gland spinal cord and trachea. IL-17E binds and activates IL-17 B Receptor (IL-17B R) (alternatively known as IL-17 Rh1, IL-17E R, and EVI27) (3, 4), which is expressed in kidney and liver, and at lower levels in brain, testis and other endocrine tissues. The expression of IL-17B R is up regulated under inflammatory conditions. Ligation of IL-17E to IL-17 RB induces activation of nuclear factor kappa-B and stimulates the production of the proinflamatory cytokine IL-8 (3). IL-17 has also been found to promote the expression of the prototypical Th2 genes (4, 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. Lee, J. et al. (2001) J. Biol. Chem. 276:1660.
- 4. Hurst, S.D. et al. (2002) J. Immunol. 169:443.
- 5. Pan, G. et al. (2001) J. Immunol. 167:6569.

