

# Mouse IL-17E/IL-25 Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 881014 Catalog Number: MAB13992

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse IL-17E/IL-25 in ELISAs.	
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 881014	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant mouse IL-17E/IL-25 Tyr17-Ala169 Accession # NP_542767	
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.	

### **APPLICATIONS**

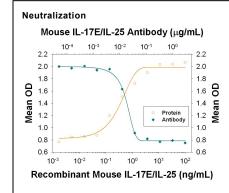
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

\*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS

Neutralization

Measured by its ability to neutralize IL-17E/IL-25-induced CXCL1/GRO $\alpha$  secretion in the HT-29 human colon adenocarcinoma cell line. The Neutralization Dose (ND<sub>50</sub>) is typically 0.005-0.025  $\mu$ g/mL in the presence of 10 ng/mL Recombinant Mouse IL-17E/IL-25.

### DATA



CXCL1/GROα Induced by IL-17E/IL-25 and Neutralization by Mouse IL-17E/IL-25 Antibody. Recombinant Mouse IL-17E/IL-25 (Catalog # 1399-IL) induces CXCL1/GROα secretion in the the HT-29 human colon adenocarcinoma cell line in a dose-dependent manner (orange line), as measured by Human CXCL1/GROα DuoSet (Catalog # DY275). CXCL1/GROα Secretion elicited by Recombinant Mouse IL-17E/IL-25 (10 ng/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Mouse IL-17E/IL-25 Monoclonal Antibody (Catalog # MAB13992). The  $ND_{50}$  is typically 0.005-0.025 µg/mL.

6 months, -20 to -70 °C under sterile conditions after reconstitution.

## 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.
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution</li> </ul>







# Mouse IL-17E/IL-25 Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 881014

Catalog Number: MAB13992

#### **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 (aa) residues 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.
- 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.



Rev. 3/13/2015 Page 2 of 2