

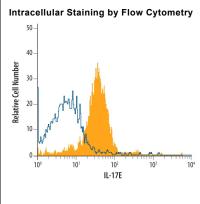
Mouse IL-17E/IL-25 Antibody

Monoclonal Rat IgG_{2B} Clone # 207702 Catalog Number: MAB13991

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse IL-17E/IL-25 in ELISAs. In ELISAs, no cross-reactivity with recombinant human IL-17E, recombinant mouse (rm) IL-17, rmIL-17B, C, D, or F is observed.		
Source	Monoclonal Rat IgG _{2B} Clone # 207702		
Purification	Protein A or G purified from hybridoma culture supernatant		
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. *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 μg/10 ⁶ cells	See Below		
Mouse IL-17E/IL-25 Sandwich Immunoassay		Reagent		
ELISA Capture	2-8 μg/mL	Mouse IL-17E/IL-25 Antibody (Catalog # MAB13991)		
ELISA Detection	0.1-0.4 µg/mL	Mouse IL-17E/IL-25 Biotinylated Antibody (Catalog # BAF1399)		
Standard		Recombinant Mouse IL-17E/IL-25 (Catalog # 1399-IL)		
CyTOF-ready	Ready to be labeled u conjugation.	ising established conjugation methods. No BSA or other carrier proteins that could interfere with		



Detection of IL-17E/IL-25 in Tramp-C1 Mouse Cell Line by Flow Cytometry. Tramp-C1 mouse prostate cancer cell line was stained with Mouse IL-17E/IL-25 Monoclonal Antibody (Catalog # MAB13991, filled histogram) or isotype control antibody (Catalog # MAB0061, 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.

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. 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.	

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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 24-32% 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 pro-inflamatory 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.
- Pan, G. et al. (2001) J. Immunol. 167:6569.

