

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1258

DESCRIPTION

Species Reactivity	Human	
Specificity	Detects human IL-17E in direct ELISAs and Western blots. In direct ELISAs, less than 60% cross-reactivity with recombinant mouse IL-17E is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli-</i> derived recombinant human IL-17E (R&D Systems, Catalog # 1258-IL) Tyr33-Gly177 Accession # Q9H293	
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. *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	e determined by each laboratory for each application. General Protocols	are available in the Technical Information section on our website.	
	Recommended Concentration	Sample	
Western Blot	0.1 µg/mL	Recombinant Human IL-17E/IL-25 (Catalog # 1258- IL)	
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 0.04-0.24 ug/mL in the presence of 5 ng/ml Recombinant Human IL-17E/IL-25.		
ELISA	This antibody functions as an ELISA de Monoclonal Antibody (Catalog # MAB12	tection antibody when paired with Mouse Anti-Human IL-17E/IL-25 58).	
	This product is intended for assay development on various assay platforms requiring antibody pairs.		

DATA



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. *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>	
	<ul> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

Rev. 7/7/2021 Page 1 of 2

biotechne

Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449



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

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1258

## 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).

Human IL-17E cDNA encodes a 177 amino acid (aa) residues precursor protein with a putative 32 aa signal peptide (3). A second isoform of human IL-17E encoding a 161 aa precursor protein also exists (4). The two isoforms differ in their signal peptide sequences. Mature human IL-17E shares 76% aa sequence identity with mature mouse IL-17E. Human IL-17E also shares from 25% to 36% aa sequence identity with the other human 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 (3). IL-17E binds and activates IL-17 B Receptor (IL-17B R) (alternatively known as IL-17 Rh1, IL-17E R, and EVI27) (3), 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.

Rev. 7/7/2021 Page 2 of 2



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449