

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF177

DESCRIPTION

Species Reactivity	Human		
Specificity	Detects human IL-17 R in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant mouse IL-17 R is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-17 R Leu33-Trp320 Accession # Q96F46		
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.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	K562 human chronic myelogenous leukemia cell line
Neutralization	, , ,	to neutralize IL-17-induced IL-6 secretion in normal human dermal fibroblasts. Yao, Z. <i>et al.</i> . The Neutralization Dose (ND_{50}) is typically 0.1-0.5 µg/mL in the presence of 25 ng/mL
	Recombinant Human II	17.

DATA

Western Blot	Detection of Human IL-17 R by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human IL-17 R Antigen Affinity-purified Polyclonal Antibody (Catalog # AF177) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for IL-17 R at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.	Neutralization Human IL-17 R Antibody (μg/mL) 1.6 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.4 1.2 1.0 1.6 1.6 1.4 1.2 1.0 1.6 1.6 1.4 1.2 1.0 1.6 1.6 1.4 1.2 1.6 1.6 1.4 1.2 1.6 1.6 1.6 1.6 1.4 1.2 1.0 1.6 1.6 1.4 1.2 1.0 1.6 1.6 1.4 1.2 1.0 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6		
PREPARATION AND STORAGE Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.				

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

- 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

Stability & Storage

Shipping

Interleukin 17 (also known as CTLA-8) is a T cell-expressed pleotropic cytokine. IL-17 binds to IL-17 receptor (IL-17 R) which shares no homology with any known family of receptors. While the expression of IL-17 is restricted to activated T cells, the IL-17 R mRNA exhibits a broad tissue distribution, and has been detected in virtually all cells and tissues tested. The human IL-17 R gene was localized to chromosome 22. Human IL-17 R is an 866 amino acid (aa) type I membrane glycoprotein with a 293 aa extracellular domain, a 21 aa carboxy-proximal transmembrane domain, and a 525 aa cytoplasmic tail. The aa sequence of human IL-17 R is 69% identical to the mouse IL-17 R. The signaling events of IL-17 includes activation of NF-κB and JNK, and require TNF receptor-associated factors 6 (TRAF6) in the signaling pathway.

References:

- 1. Yao, Z. et al. (1997) Cytokine 9:794.
- 2. Schwander, R. et al. (2000) J. Exp. Med. 191:1233.

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