Human IL-17 RA/IL-17 R Antibody
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF177

DESCRIPTION
Species Reactivity Human
Specificity Detects human IL-17 RA/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 RAIL-17 R is observed.
Source Polyclonal Goat IgG
Purification Antigen Affinity-purified
Immunogen Mouse myeloma cell line NS0-derived recombinant human IL-17 RA/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.
*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
Western Blot 0.5 μg/mL See Below
Flow Cytometry 2.5 μg/10^6 cells K562 human chronic myelogenous leukemia cell line
CyTOF-ready Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.
Neutralization Measured by its ability to neutralize IL-17-induced IL-6 secretion in normal human dermal fibroblasts. Yao, Z. et al. (1995) Immunity 3:811. The Neutralization Dose (ND_{50}) is typically 0.1-0.5 μg/mL in the presence of 25 ng/mL Recombinant Human IL-17.

DATA

Preparation and Storage
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 recommended temperature 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.

Neutralization

IL-6 secretion induced by IL-17 and Neutralization by Human IL-17 RA/IL-17 R Antibody. Recombinant Human IL-17 (Catalog # 317-LB) stimulates IL-6 secretion in normal human dermal fibroblasts in a dose-dependent manner (orange line), as measured by the Human IL-6 Quantikine ELISA Kit (Catalog # D6050). IL-6 secretion elicited by Recombinant Human IL-17 (25 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human IL-17 RA/IL-17 R Antigen Affinity-purified Polyclonal Antibody (Catalog # AF177). The ND_{50} is typically 0.1-0.5 μg/mL.
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 1 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: