**DESCRIPTION**

**Species Reactivity**  Human/Primate

**Specificity**  Detects human and primate IL-17 in direct ELISAs. In sandwich immunoassays, approximately 22% cross-reactivity with rhIL-17A/F heterodimer is observed, and less than 0.05% cross-reactivity with recombinant mouse (rm) IL-17, recombinant human (rh) IL-10, rhIL-12, rhIL-16, rhIFN-γ, rhIL-17B, rhIL-17C, rhIL-17D, rhIL-17E and rhIL-17F is observed.

**Source**  Polyclonal Goat IgG

**Purification**  Antigen Affinity-purified

**Immunogen**  E. coli-derived recombinant human IL-17

Ile20-Ala155

Accession # Q16552

**Formulation**  Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. 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

**Immunohistochemistry**  0.3-15 µg/mL  See Below

**Human/Primate IL-17 Sandwich Immunoassay**

**ELISA Capture**  2-8 µg/mL  Human/Primate IL-17/IL-17A Antibody (Catalog # MAB317)

**ELISA Detection**  0.1-0.4 µg/mL  Human/Primate IL-17/IL-17A Biotinylated Antibody (Catalog # BAF317)

**Standard**  Recombinant Human IL-17/IL-17A (Catalog # 317-ILB)

**DATA**

**Immunohistochemistry**  IL-17/IL-17A in Human Crohn's Disease Intestine. IL-17/IL-17A was detected in immersion fixed paraffin-embedded sections of human Crohn's disease intestine using Goat Anti-Human/Primate IL-17/IL-17A Biotinylated Antibody antigen affinity-purified Polyclonal Antibody (Catalog # BAF317) at 0.3 μg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

**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 temperature recommended below.

**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.
Interleukin 17 (also known as CTLA-8) is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpesvirus Saimiri. cDNA clones encoding IL-17 have been isolated from activated rat, mouse and human T cells. Human IL-17 cDNA encodes a 155 amino acid (aa) residue precursor protein with a 19 amino acid residue signal peptide that is cleaved to yield the 136 aa residue mature IL-17 containing one potential N-linked glycosylation site. Both recombinant and natural IL-17 have been shown to exist as disulfide-linked homodimers. At the amino acid level, human IL-17 shows 72% and 63% sequence identity with herpesvirus and rat IL-17, respectively. An IL-17 specific mouse cell surface receptor (IL-17 R) has been cloned. While the expression of IL-17 mRNA is restricted to activated T cells, the expression of mIL-17 R mRNA has been detected in virtually all cells and tissues tested. IL-17 exhibits multiple biological activities on a variety of cells including the induction of IL-6 and IL-8 production in fibroblasts, the enhancement of surface expression of ICAM-1 in fibroblasts, activation of NF-κB and costimulation of T cell proliferation. The non-glycosylated, E. coli-expressed rhIL-17 has been shown to be active on human as well as mouse cell lines.

**References:**