

LEAF™ Purified anti-human IL-17A

Catalog # / Size: 512603 / 50 µg

Clone: BL127

Isotype: Mouse IgG2a, κ

Immunogen: Recombinant full length human IL-17A

Reactivity: Human

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: ELISA capture

Recommended Usage: Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 2-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of human IL-17A recombinant protein ranging from 2000 to 15pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA Capture:** The Purified BL127 antibody is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated BL23 antibody as the detecting antibody.

Description: IL-17A is the founding member of the IL-17 family, a group of six structurally related pro-inflammatory cytokines. IL-17A, secreted by activated CD4+ Th17 cell subpopulation, elicits multiple biological activities on a variety of cells including: the induction of IL-6, IL-8, G-CSF, and PGE2 production in epithelial, endothelial or fibroblasts; the enhancement of surface expression of ICAM-1 in fibroblasts; activation of NF-κB and costimulation of T cell proliferation. Recent studies demonstrated that, in mice, activated IL-17-secreting CD4+ helper T cells (Th17 cells) mediate an autoimmune arthritis that clinically and immunologically resembles rheumatoid arthritis (RA). Human IL-17A shows 63%, 63% and 72% amino acid sequence identity to rat IL-17A, mouse IL-17A and a protein encoded by the ORF13 gene of herpesvirus Saimiri (HVS), respectively.

Antigen References:

1. Hirota K, *et al.* 2007. *J. Exp. Med.* 204:41.
2. Furuzawa-Carballeda J, *et al.* 2007. *Autoimmun Rev.* 6:169.
3. Witowski J, *et al.* 2007. *Kidney Int.* 71:514.
4. Gaffen SL, *et al.* 2006. *Vitam Horm.* 74:255.
5. Hymowitz S, *et al.* 2001. *EMBO J.* 20:5332.



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