

IL-17A Monoclonal Antibody (3.41.2.6.1), Biotin

Catalog NumberMA1069B

Product data sheet

Details	
Size	100 µg
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	3.41.2.6.1
Immunogen	Recominant human IL-17A.
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein G
Storage buffer	PBS with 4% BSA
Contains	proprietary preservative
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human

Tested Applications	Dilution *
ELISA (ELISA)	0.125-0.25 µg/mL

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

The MA1068 anti-IL17a antibody (clone 3-36.2.7.3) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody MA1069B (biotinylated conjugate of clone 3-41.2.6.1). Typical dilutions for sandwich ELISA include 1 µg/mL for coating and 0.125 - 0.25 µg/mL for detection.

Background/Target Information

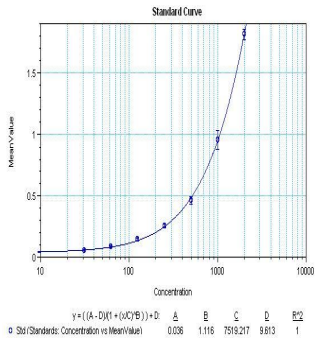
Interleukin-17A (IL-17A, CTLA-8) is a CD4+ T cell-derived cytokine that promotes inflammatory responses in cell lines and is elevated in rheumatoid arthritis, asthma, multiple sclerosis, psoriasis, and transplant rejection. IL-17A is a 32 kDa long, disulfide-linked homodimer consisting of 136 amino acids that is a member of a six-species family of proteins (IL-17A-17F) and signals through the IL-17 receptor (IL-17R/CDw217). High levels of IL-17A homodimer are produced by activated peripheral blood CD4+ T-cells, and IL-17A also enhances expression of the intracellular adhesion molecule-1 (ICAM-1) in human fibroblasts. In particular, human IL-17A also stimulates epithelial, endothelial, or fibroblastic cells to secrete IL-6, IL-8, G-CSF, and PGE2. In the presence of human IL-17A, fibroblasts can sustain the proliferation of CD34+ hematopoietic progenitors and induce maturation into neutrophils. Mouse, rat, and human IL-17A can induce IL-6 secretion in mouse stromal cells, indicating that all homologs can recognize the mouse receptor. IL-17A regulates the activities of NF-kappa B and mitogen-activated protein kinases, stimulates the expression of IL-6 and cyclooxygenase-2 (PTGS2/COX-2), and enhances the production of nitric oxide (NO).

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IL-17A Antibody (MA1069B) in ELISA

Sandwich ELISA analysis of Human IL-17A monoclonal antibody was performed using the Thermo Scientific ELISA Kit (Product # EHIL17A) by coating a blank 96-well microtiter plate with 100 µL per well of Human IL-17A monoclonal antibody (Product # MA1068) in duplicate at 1, 3, 4, 5, 7, and 9 µg/mL in DPBS (Product # 28374) and incubating for 12-18 hours at 4C. The plate was aspirated and blocked with 300 µL per well of 4% BSA and 5% sucrose in DPBS for 1 hour at room temperature. Human IL-17A recombinant protein at 50 µL per well was added in duplicate at 2000, 1000, 500, 250, 125, 62.5, 31.25, and 0 pg/mL for 2 hours at room temperature along with 50 µL of Human IL-17A biotinylated monoclonal antibody (Product # MA1069B) in all applicable wells at 0.1 µg/mL for 2 hours at room temperature. The plate was washed with ELISA Wash Buffer (Product # N503) and incubated with 100 µL per well of Streptavidin-HRP (Product # N504) in all test wells at 1:40,000 dilution for 30 minutes at room temperature and then washed and incubated with 100 µL per well of TMB substrate (Product # 34028) for 30 minutes at room temperature in the dark. The plate was stopped with 0.16M sulfuric acid (Product # N600). Absorbances were read on a spectrophotometer at 450-550 nm.

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