



A Reliable Research Partner in Life Science and Medicine

AF/LE Purified Anti-Mouse IL-17A Antibody[TC11-18H10.1]

catalog number: E-AB-F11990

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Mouse

Immunogen Recombinant Mouse IL-17A protein

Host Rat

 Isotype
 Rat IgG1, κ

 Clone
 TC11-18H10.1

Purification >98%, Protein A/G purified

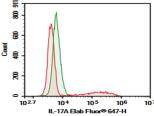
Buffer Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL

method.

Applications Recommended Dilution

FCM 2 μ g/mL(0.5×10⁶-1×10⁶ cells)

Data



HEK293T cells transfected with pcDNA3.1 plasmid encoding Mouse IL17A gene were stained with 0.2 μg AF/LE Purified Anti-Mouse IL-17A Antibody[TC11-18H10.1] (Right) and 0.2 μg Rat IgG1, κ Isotype Control (Left), followed by Elab Fluor

® 647-conjugated Goat Anti-Rat IgG Secondary Antibody.

Preparation & Storage

Storage Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze /

thaw cycles. This preparation contains no preservatives, thus it should be handled

under aseptic conditions.

Shipping Ice bag

Background

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 Rev. V1.5

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Interleukin-17A (IL-17A), also known as CTLA-8, is a 15-20 kDa glycosylated cytokine that plays an important role in anti-microbial and chronic inflammation. The six IL-17 cytokines (IL-17A-F) are encoded by separate genes but adopt a conserved cystine knot fold. Mature rat IL-17A shares 60% and 89% amino acid sequence identity with human and mouse IL-17A, respectively. IL-17A is secreted by Th17 cells, gamma /ō T cells, iNKT cells, NK cells, LTi cells, neutrophils, and intestinal Paneth cells. It forms disulfide-linked homodimers as well as disulfide-linked heterodimers with IL-17F. IL-17A exerts its effects through the transmembrane IL-17RA in complex with IL-17RC or IL-17RD. Both IL-17RA and IL-17RC are required for responsiveness to heterodimeric IL-17A/F. IL-17A promotes protective mucosal and epidermal inflammation in response to microbial infection. It induces chemokine production, neutrophil influx, and the production of antibacterial peptides. IL-17A/F likewise induces neutrophil migration, but IL-17F does not. IL-17A additionally enhances the production of inflammatory mediators by rheumatoid synovial fibroblasts and contributes to TNF-alpha induced shock. In contrast, it can protect against the progression of colitis by limiting chronic inflammation. IL-17A encourages the formation of autoreactive germinal centers and exacerbates the onset and progression of experimental models of autoimmunity. IL-17A has been shown to exert either tumorigenic or anti-tumor effects.

For Research Use Only

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