Purified Anti-Mouse IL-17A Antibody[TC11-18H10.1], Functional Grade

catalog number: **E-AB-F11990**

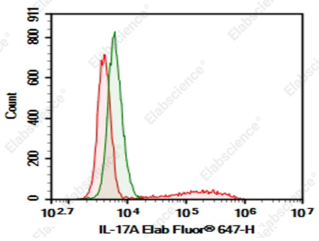
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

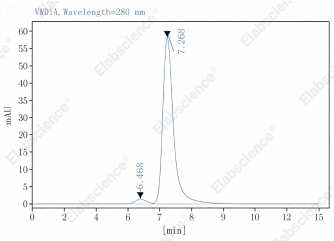
Reactivity	Mouse
Immunogen	Recombinant Mouse IL-17A protein
Host	Rat
Isotype	Rat IgG1, κ
Clone	TC11-18H10.1
Purification	>98%, Protein A/G purified
Buffer	Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method.

Applications	Recommended Dilution
FCM	≤ 0.2 μg per million cells in 100 μL volume
Neut	Reported in the literature

Data



HEK293T cells transfected with pcDNA3.1 plasmid encoding Mouse IL17A gene were stained with 0.2 μg Purified Anti-Mouse IL-17A Antibody[TC11-18H10.1], Functional Grade (Right) and 0.2 μg Rat IgG1, κ Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Rat IgG Secondary Antibody.



HEK293T cells transfected with pcDNA3.1 plasmid encoding Mouse IL17A gene were stained with 0.2 μg Purified Anti-Mouse IL-17A Antibody[TC11-18H10.1], Functional Grade (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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Email: techsupport@elabscience.com

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 /δ 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.

None (Azide-Free,Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

Application References

Yen D, et al. J Clin Invest. 2006 May;116(5):1310-7.