

Anti-IL-17A Antibody

IRS056



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	mlHC
Molecular Wt:	Predicted band size: 18 kDa

Description: Interleukin 17A (IL-17 or IL-17A) is a pro-inflammatory cytokine. This cytokine is produced by a group of T helper cell known as T helper 17 cell in response to their stimulation with IL-23. Originally, Th17 was identified in 1993 by Rouvier et al. who isolated IL17 transcript from a rodent T-cell hybridoma. The protein encoded by IL17A is a founding member of IL-17 family (see below). IL17 protein exhibits a high homology with a viral IL-17-like protein encoded in the genome of T-lymphotropic rhadinovirus Herpesvirus saimiri.[2] In rodents, IL-17 is often referred to as CTLA8. The biologically active IL-17 interacts with type I cell surface receptor IL-17R. In turn, there are at least three variants of IL-17R referred to as IL17RA, IL17RB, and IL17RC. After binding to the receptor, IL-17 activates several signalling cascades that, in turn, lead to the induction of chemokines. Acting as chemoattractants, these chemokines recruit the immune cells, such as monocytes and neutrophils to the site of inflammation. Typically, the signaling events mentioned above follow an invasion of the body by pathogens. Promoting the inflammation, IL-17 acts in concert with tumor necrosis factor and interleukin-1. Moreover, an activation of IL-17 signalling is often observed in the pathogenesis of various autoimmune disorders, such as psoriasis.

Immunogen: Recombinant protein within Human IL17 aa 1-155 / 155.

Positive control: Mouse spleen tissue.

Subcellular location: Secreted.

Database links: SwissProt: Q62386 Mouse

Recommended Dilutions:
mlHC 1:100

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Images

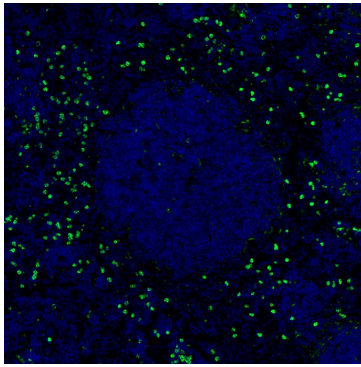


Fig1: mIHC analysis of mouse spleen tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-IL-17A antibody (IRS056) at 1/100 dilution. The immunostaining was performed with the IRISKit® HyperView mTSA Kit (MH900206). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

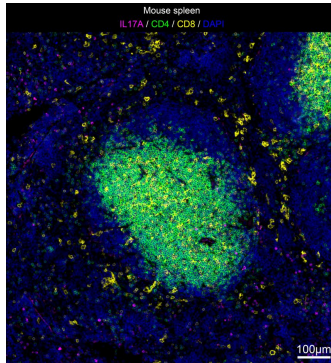


Fig2: mIHC analysis of mouse spleen tissue (Formalin/PFA-fixed paraffin-embedded sections) with IL-17A (IRS056), CD4 (IRS051) and CD8 antibody at 1/100 dilution. The immunostaining was performed with the IRISKit® HyperView mTSA Kit (MH900206). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Fossiez F.et.al.T cell interleukin-17 induces stromal cells to produce proinflammatory and hematopoietic cytokines.J. Exp. Med. 183:2593-2603(1996).

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