

**Mouse Anti-Human IL-17A Monoclonal Antibody Datasheet****Product Name:** mAb anti-Human IL-17A**Clone No.:** 5A9**Lot No.:****Catalogue No.:** MO-C40093M**Quantity:** 0.5 mg**Expiration:**

Description: Mouse monoclonal antibody to human interleukin-17A (IL-17A)

Product Type: Primary antibody.

Purification: Protein G affinity purified

Target Protein: Human IL-17A

Immunogen: Purified recombinant human IL-17A

Fusion Myeloma: SP2/0

Specificity: Reactive with human IL-17A

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1, Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.0

Reconstitution: Double distilled water is recommended to reconstitute the antibody to 1mg/ml

Storage: Store at -20°C

Research Area: Cytokine. Inflammatory and auto-immune diseases

Background: IL-17A is an inflammatory cytokine produced by Th17 cells, a newly characterised group of CD4 T help cells that plays a role in autoimmune diseases and chronic inflammatory diseases. IL-23 is the main inducer of Th17 cell development. Other cytokines such as TGF-beta, IL-6 and IL-21 were also found to contribute to the procedure. IL-17A belongs to the IL-17 family which includes IL-17A, IL-17B, IL-17C, IL-17D and IL-17E. IL-17, like interferon-gamma, is a

potent mediator of delayed-type reaction. IL-17 induces the secretion of many other pro-inflammatory cytokines and chemokines such as IL-6, IL-8, GM-CSF, G-CSF, TGF-beta, TNF-alpha, GRO-alpha, and MCP-1. IL-17 stimulates the expression of NF-kappaB, mitogen activated protein kinase, and prostaglandins by many cell types, and enhances the production of nitric oxide.

Applications:

ELISA: The anti-human IL-17A antibody clone 5A9 reacts with human IL-17A in ELISA.

Western blot: The image below shows that anti-human IL-17A antibody clone 5A9 reacts with human 293 cell expressed human IL-17A antigen (100ng) in Western Blot. The blot was stained with HRP substrate 4-Chloro-1-naphthol.

**References:**

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