



## Mouse Anti-Human IL-17A Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human IL-17A

**Clone No.:** 4C1

**Lot No.:**

**Catalogue No.:** MO-C40093A

**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:

**Sandwich ELISA:** In combination with biotin conjugated anti-human IL-17A clone 3H11 (MO-C40093K), anti-human IL-17A clone 4C1 can be used as capture antibody for quantitative measurement of human IL-17A in sandwich ELISA application.

**Western blot:** The image below shows that anti-human IL-17A antibody 4C1 reacts with human cell expressed human IL-17A antigen (250ng) in Western Blot. The blot was stained with HRP substrate 4-Chloro-1-naphthol.



### References:

If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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