

## Basic Information

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|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Product Name</b>       | Anti-IL10 Antibody (Clone#AFIE-9)                                                                                                                                                                                                                                                                                        |  |
| <b>Gene Name</b>          | IL10                                                                                                                                                                                                                                                                                                                     |  |
| <b>Source</b>             | Rat                                                                                                                                                                                                                                                                                                                      |  |
| <b>Isotype</b>            | IgG1, $\kappa$                                                                                                                                                                                                                                                                                                           |  |
| <b>Species Reactivity</b> | mouse                                                                                                                                                                                                                                                                                                                    |  |
| <b>Tested Application</b> | WB,IHC                                                                                                                                                                                                                                                                                                                   |  |
| <b>Contents</b>           | 200 ug/ml antibody with PBS , 0.02% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 1 mg BSA and 50% glycerol.                                                                                                                                                                                                           |  |
| <b>Immunogen</b>          | Recombinant mouse IL-10                                                                                                                                                                                                                                                                                                  |  |
| <b>concentration</b>      | 200 ug/ml                                                                                                                                                                                                                                                                                                                |  |
| <b>Purification</b>       | protein G purified.                                                                                                                                                                                                                                                                                                      |  |
| <b>Dilution Ratios</b>    | Western blot (WB): 1:500-2000<br>Immunohistochemistry(Paraffin-embedded Section): 1:50-400<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |  |

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Interleukin-10 (IL-10 or IL10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. In humans IL-10 is encoded by the IL10 gene. It is capable of inhibiting synthesis of pro-inflammatory cytokines like IFN-gamma, IL-2, IL-3, TNFalpha and GM-CSF made by cells such as macrophages and regulatory T-cells. IL-10 also displays potent abilities to suppress the antigen presentation capacity of antigen presenting cells. Kim et al. (1992) showed that the mouse IL 10 gene contains 5 exons and spans about 5.2 kb of genomic DNA. Eskdale et al. (1997) mapped the IL10 gene to the junction between 1q31 and 1q32.

## Reference

Anti-IL10 Antibody (Clone#AFIE-9)被引用在1文献中。

## Selected Validation Data

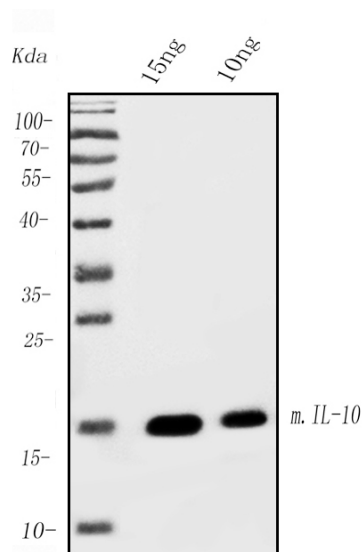


Figure 1. Western blot analysis of IL-10 using anti-IL-10 antibody (M00021-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.

Lane 1: recombinant mouse IL-10 protein 15ng,

Lane 2: recombinant mouse IL-10 protein 10ng.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rat anti-IL-10 antigen affinity purified monoclonal antibody (Catalog # M00021-1) at 0.5 µg/mL overnight at 4~C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rat IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system.

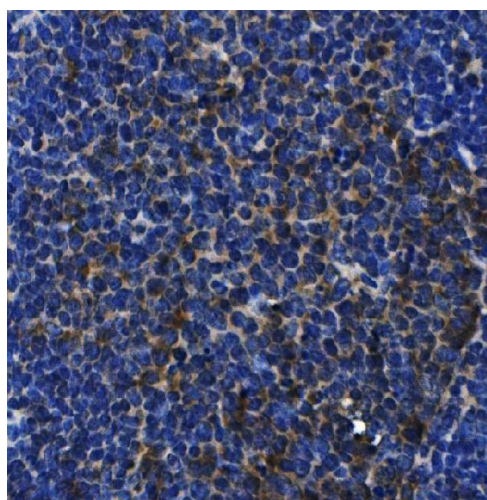


Figure 2. IHC analysis of IL-10 using anti-IL-10 antibody (M00021-1).

IL-10 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5µg/ml rat anti-IL-10 Antibody (M00021-1) overnight at 4~C. Biotinylated goat anti-rat IgG was used as secondary antibody and incubated for 30 minutes at 37~C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.