

Anti- IL-10 Monoclonal Antibody

Catalog Number: M00021-1

About IL10

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.

Overview

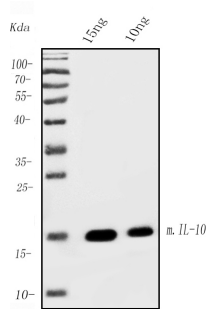
Product Name	Anti- IL-10 Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti- IL-10 Monoclonal Antibody catalog # M00021-1. Tested in IHC-P, WB applications. This antibody reacts with Mouse.
Application	IHC-P, WB
Clonality	Monoclonal AFIE-9
Formulation	PBS, pH 7.0. Contains no stabilizers or preservatives
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rat
Uniprot ID	P18893

Technical Details

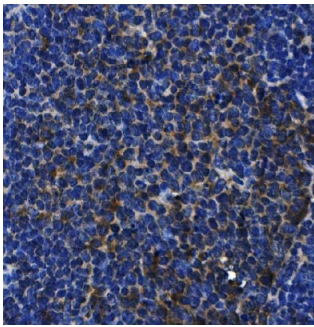
Immunogen	Recombinant mouse IL-10
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1001) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0001-1) for IHC(P) .
Cross Reactivity	No cross reactivity with other proteins
Isotype	Rat IgG1, kappa
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 μ g/ml, Mouse Immunohistochemistry (Paraffin-embedded Section), 2-5 μ g/ml, Mouse

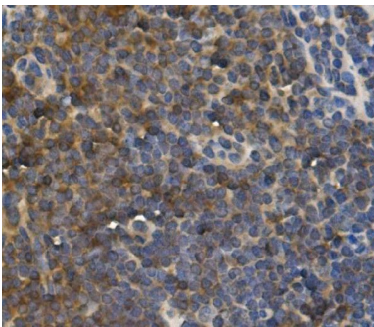
Anti- IL-10 Monoclonal Antibody (M00021-1) Images



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 ug/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.



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 5ug/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.



IHC analysis of IL-10 using anti-IL-10 antibody (M00021-1). IL-10 was detected in paraffin-embedded section of mouse lymphaden 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 5ug/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.

3 Publications Citing This Product

1. PubMed ID: 10.1021/acsami.1c10309, Novel Multifunctional Silver Nanocomposite Serves as a Resistance-Reversal Agent to Synergistically Combat Carbapenem-Resistant *Acinetobacter baumannii*
2. PubMed ID: -, Jiang Peng-Fei, Peng Jun, Tan Han-Yu, Ou-Yang Yun, Qin Gen-Yan, Peng Qing-Hua, Effects of Buddlejia Flos Granules on Inflammatory Factors TGF-beta1, NF-kappaB, IL-10 and IL-12 in Lacrimal Gland Cells of Castrated Male Rabbits, Digital Chinese Medicine, Volume 2, Issue 2, 2019, Pages 97-104, ISSN 2589-3777, <https://doi.org/10.1016/j.dcm.2019.09.004>.

3. PubMed ID: 26064167, Gong T, Wang Cf, Yuan Jr, Li Y, Gu Jf, Zhao Bj, Zhang L, Jia Xb, Feng L, Liu Sl. Evid Based Complement Alternat Med. 2015;2015:630760. Doi: 10.1155/2015/630760. Epub 2015 May 3. Inhibition Of Tumor Growth And Immunomodulatory Effects Of Flavonoids...

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