BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IL10 Antibody

Catalog Number: A00021-3

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.

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Overview

Product Name	Anti-IL10 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-IL10 Antibody catalog # A00021-3. Tested in ELISA, IHC applications. This antibody reacts with Mouse, Rat.
Application	ELISA, IHC
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P29456

Technical Details

Immunogen	E.coli-derived rat IL10 recombinant protein (Position: K52-A170).
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.

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Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse, Rat ELISA, 0.1-0.5ug/ml,

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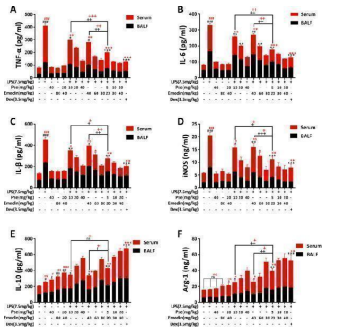
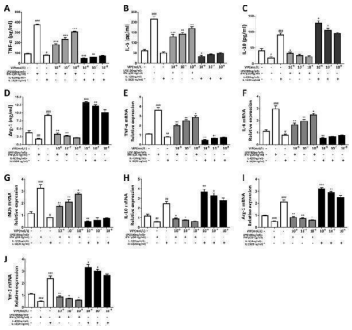
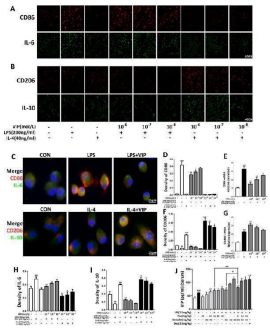
Anti-IL10 Antibody (A00021-3) Images



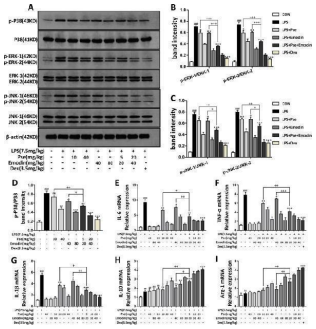
Effects of Pseudoephedrine + emodin on the expression of TNF-alpha, IL-6, IL-1beta, iNOS, IL-10, Arg-1 in LPS-induced ALI rats. The contents of TNF-alpha (A), IL-6 (B), IL-1beta (C), iNOS (D), IL-10 (E), Arg-1 (F) in the serum and BALF were determined using ELISA. Data were expressed as mean ± S.D. (n = 3). # p < 0.05, ## p < 0.01, ### p < 0.001 vs. control group. *p < 0.05, **p < 0.01, ***p < 0.001 vs. LPS alone group. + p < 0.05, ++ p < 0.01, +++ p < 0.001 vs. combined treatment group (5 + 20 mg/kg) Index in PubMed under a CC BY license. PMID: 35123524



Effects of VIP on levels of inflammatory and anti-inflammatory cytokines in LPS + IFN-gamma or IL-4 + IL-13 induced AMs cells. Macrophages were pre-treated with VIP(10 –6 ,10 –7 , 10 –8 mol/L) for 24 h, followed by LPS (100 ng/mL) + IFN-gamma(20 ng/mL) or IL-4 (40 ng/mL) + IL-13(20 ng/mL) stimulation for 12 h. Cells were collected and the contents of TNF-alpha (A), IL-6 (B), IL-10 (C), Arg-1 (D) were determined using ELISA. (E-J) TNF-alpha, IL-6, iNOS, IL-10, Arg-1, Ym-1 mRNA expression was determined using Real-time PCR analysis. Data were expressed as mean ± S.D. (n = 3). # p < 0.05, ## p < 0.01, ### p < 0.001 vs. control group. *p < 0.05, **p < 0.01, ***p < 0.001 vs. LPS alone group. +p < 0.05, + + p < 0.01, +++ p < 0.001 vs. IL-4 alone group Index in PubMed under a CC BY license. PMID: 35123524



VIP inhibited (M1) macrophage and activated (M2) macrophage in LPS + IFN-gamma-induced or IL-4 + IL-13-induced AMs. Effects of Pseudoephedrine + emodin on the expression of VIP in LPS-induced ALI rats. A – D , F , H , I (M1) macrophage Marker CD86, IL-6 and (M2) macrophage Marker CD206, IL-10 expression was determined using immunofluorescence. E , G CD86, CD206 mRNA expression was determined using Real-time PCR analysis. J The contents of VIP in the serum of ALI rats were determined using ELISA. Data are expressed as mean ± S.D. (n = 3). ## p < 0.01, ### p < 0.001 vs. control group. *p < 0.05, **p < 0.01 vs. LPS alone group. +p < 0.05, ++ p < 0.01, +++ p < 0.001 vs. IL-4 alone group Index in PubMed under a CC BY license. PMID: 35123524



Pseudoephedrine + emodin Inhibited MAPK in LPS-induced acute lung injury in rats. A – D Western blot analysis was performed to detect p-P38, p-ERK1/2 and p-JNK1/2 protein expression. E – I TNF-alpha, IL-6, IL-1beta, IL-10, Arg-1 mRNA expression was determined using Real-time PCR analysis. All data are expressed as mean ± S.D. (n = 3). ## p < 0.01, ### p < 0.001 vs. control group. *p < 0.05, **p < 0.01, ***p < 0.001 vs. LPS alone group. + p < 0.05, ++ p < 0.01, +++ p < 0.001 vs. Combined treatment group (5 + 20 mg/kg)

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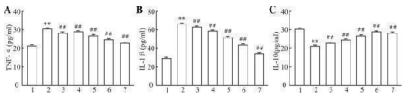
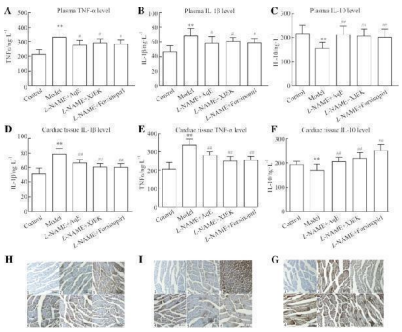
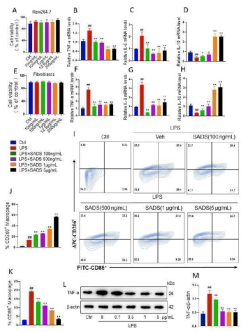


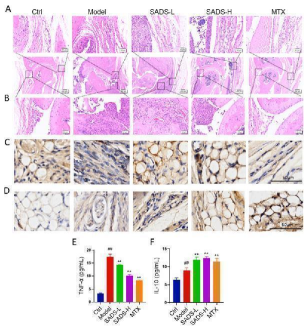
Effects of polysaccharide extract from XJEK on TNF-alpha, IL-1beta and IL-10 of HUVECs induced by Ang II. (a) TNF-alpha level in supernatants of HUVECs; (b) IL-1beta level in supernatants of HUVECs; (c) IL-10 level in supernatants of HUVECs. 1, blank control group; 2, Ang II (10 − 5 mol/L) group; 3, Ang II (10 − 5 mol/L) + AqE (0.15 mg/ml) group; 4, Ang II (10 − 5 mol/L) + AqE (0.3 mg/ml) group; 5, Ang II (10 − 5 mol/L) + AqE (0.6 mg/ml) group; 6, Ang II (10 − 5 mol/L) + AqE (1.2 mg/ml) group; 7, Ang II (10 − 5 mol/L) + XJEK (1.6 mg/ml) group. Data are expressed as mean ± SD, n = 6. ** P < 0.01 vs control group; ## P < 0.01 vs Ang II group Index in PubMed under a CC BY license. PMID: 31196042



Effects of polysaccharide extract from XJEK on TNF-alpha, IL-1beta and IL-10 in L -NAME-induced hypertensive mice. (a) TNF-alpha expression level in plasma. (b) IL-1beta expression level in plasma. (c) IL-10 expression level in plasma. (d) IL-1beta expression level in cardiac tissues. (e) TNF-alpha expression level in cardiac tissues. (f) IL-10 expression level in cardiac tissues. (g) Representative image of IL-1beta immunocytochemistry. (h) Representative image of TNF-alpha immunocytochemistry. (i) Representative image of IL-10 immunocytochemistry.1,negative group; 2,control group; 3, model group; 4, L -NAME+AqE group; 5, L -NAME+XJEK group; 6, L -NAME+fosinopril group. Data are presented as the mean ± SD (n = 10). ** P < 0.01 vs. control group; # P < 0.05, ## P < 0.01 vs, model group Index in PubMed under a CC BY license. PMID: 31196042



SADS inhibited Raw264.7 and fibroblast-like synoviocyte inflammation in vitro. (A) The effect of SADS on the viability of Raw264.7. (B–D) RT-PCR analysis of TNF-alpha, IL-6 and IL-10 in Raw264.7 treated with SADS.(E) The effect of SADS on the viability of fibroblast-like synoviocytes. (F–H) RT-PCR analysis of TNF-alpha, IL-6 and IL-10 in fibroblast-like synoviocytes treated with SADS.(I) The phenotype of Raw264.7 was analyzed by flow cytometry.(J and K) Statistics of the proportion of M2 and M1 macrophages. (L and M) TNF-alpha protein expression level detection. ##P < 0.01 versus Ctrl; ∗∗P < 0.01versus LPS. n = 6.Index in PubMed under a CC BY license. PMID: 40688514



Pathological evaluation of IL-1RA−/− mice synovial tissue. HE staining showed synovial hyperplasia (A) and inflammation (B). (C) IHC staining of TNF-alpha in synovial tissue. (D) IHC staining of IL-10 in synovial tissue.(E and F) Levels of TNF-alpha and IL-10 in the blood of IL1RA−/ -deficient mice. ##P < 0.01 versus Ctrl; ∗∗P < 0.01versus Model. n = 6 mice for each group. Control is wild-type mice, and the model is IL1RA−/− mice.Index in PubMed under a CC BY license. PMID: 40688514

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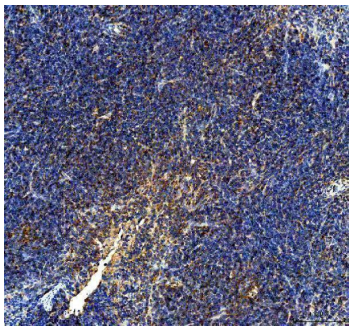
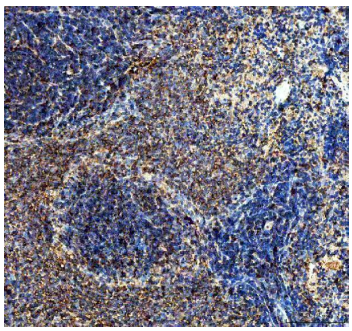


IHC analysis of IL10 using anti-IL10 antibody (A00021-3). IL10 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-IL10 Antibody (A00021-3) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of IL10 using anti-IL10 antibody (A00021-3). IL10 was detected in paraffin-embedded section of rat 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 2ug/ml rabbit anti-IL10 Antibody (A00021-3) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

7 Publications Citing This Product

1. PubMed ID: 10.1590/1414-431X20142910, Putative role of ischemic postconditioning in a rat model of limb ischemia and reperfusion: involvement of hypoxia-inducible factor-1alpha expression

2. PubMed ID: 10.1590/s0102-865020170050000007, Myocardial ischemic post-conditioning protects the lung against myocardial ischemia/reperfusion-induced damage by activating GSK-3beta

3. PubMed ID: PMID:25337228, Human interleukin-10 gene inhibits acute rejection by triggering apoptosis in allograft vascular transplantation

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