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antibody and ELISA experts

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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-IL10 Antibody Picoband®

Catalog Number: A00021-2

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-IL10 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IL10 Antibody Picoband® catalog # A00021-2. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
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	P22301

Technical Details

Immunogen	E. coli-derived human IL10 recombinant protein (Position: S19-N178).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat ELISA, 0.1-0.5ug/ml, -

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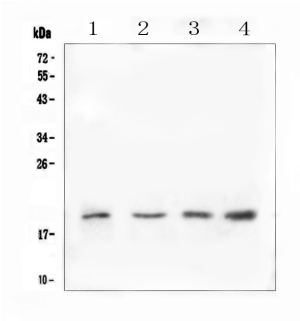
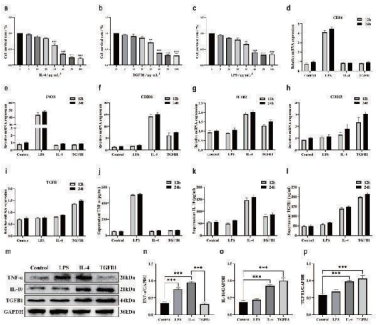
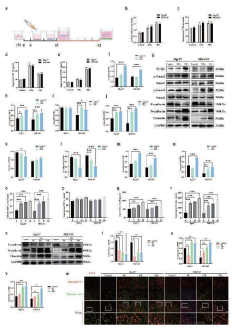
Anti-IL10 Antibody Picoband® (A00021-2) Images



Western blot analysis of IL10 using anti-IL10 antibody (A00021-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human U-87MG whole cell lysate,Lane 2: rat testis tissue lysates,Lane 3: mouse testis tissue lysates,Lane 4: mouse SP20 whole cell lysate. 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 rabbit anti-IL10 antigen affinity purified polyclonal antibody (Catalog # A00021-2) 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-rabbit 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 # EK1002) with Tanon 5200 system. A specific band was detected for IL10 at approximately 19KD. The expected band size for IL10 is at 21KD.

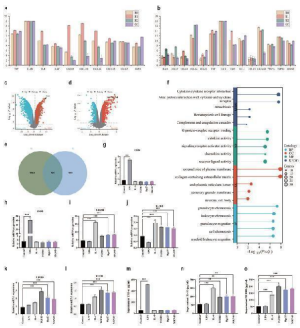


Different inducers promote polarization of different subtypes of macrophages. a The CCK-8 method was used to detect the survival of M0 macrophages after 24 h of IL-4 intervention. b The CCK-8 method was used to detect the survival of M0 macrophages after 24 h of intervention with TGFbeta1. c The CCK-8 method was used to detect the survival of M0 macrophages after LPS intervention for 24 h. d RT-qPCR was used to detect the expression of CD86 mRNA. e RT-qPCR was used to detect the expression of iNOS mRNA. f RT-qPCR was used to detect the expression of CD206 mRNA. g RT-qPCR was used to detect the expression of IL1R2 mRNA. h RT-qPCR was used to detect the expression of CD163 mRNA. i RT-qPCR was used to detect the expression of TGFbeta mRNA. j ELISA detects TNF - alpha levels. k ELISA was used to detect IL-10 levels. l ELISA detects the content of TGFbeta1. m The WB results of different interventions on histone expression. f TNF-alpha protein expression results. f IL-10 protein expression results. f TGFbeta1 protein expression results. *p



The effect of M2 subtype macrophages on TGFbeta1 related pathway and epithelial mesenchymal transition in gastric cancer cells. a Cell intervention pattern diagram. b RT-qPCR was used to detect the levels of TGFbeta mRNA in different intervention groups. c ELISA was used to test the expression of TNF-alpha in different intervention groups. d ELISA test the expression of IL-10 in different intervention groups. e ELISA was used to test the expression of TGFbeta1 in different intervention groups. f The expression results of TGFbeta1 protein. g The WB results of different interventions on histone expression. h The expression results of p-Smad2 protein. i The expression results of Smad2 protein. j The

expression results of p-Smad3 protein. k The expression results of Smad3 protein. l The expression results of E-cadherin protein. m Results of N-cadherin protein expression. n Results of Vimentin protein expression. o RT-qPCR was used to detect the content of TGFbeta mRNA at different intervention times. p ELISA was used to test the expression of TNF-alpha at different intervention times. q ELISA test the expression of IL-10 at different intervention times. r ELISA was used to test the expression of TGFbeta1 at different intervention times. s WB results of protein expression at different intervention times. t The expression results of E-cadherin protein. u The expression results of N-cadherin protein. v Results of Vimentin protein expression. w Fluorescence results of mitochondrial membrane potential at different intervention times. Scale bar=50 um. *p



The role of gastric cancer cells in transforming macrophages in the TME. a The expression of M1 macrophage marker proteins in different groups. b The expression of M2 macrophage marker proteins in different groups. c Differential gene expression between M0 and gastric cancer cell metabolite intervention group. d Differential gene expression between M2 and gastric cancer cell metabolite intervention group. e Intersection statistics of differentially expressed genes between M2 and gastric cancer cell metabolite intervention group. f Intersection gene enrichment statistics. g RT-qPCR was used to detect the expression of CD86 mRNA. h RT-qPCR was used to detect the expression of iNOS mRNA. i RT-qPCR was used to detect the expression of CD206 mRNA. j RT-qPCR was used to detect the expression of IL1R2 mRNA. k RT-qPCR was used to detect the expression of CD163 mRNA. l RT-qPCR was used to detect the expression of TGFbeta mRNA. m ELISA was used to detect TNF-alpha levels. n ELISA detects IL-10 levels. o ELISA detects the content of TGFbeta1. *p

11 Publications Citing This Product

1. PubMed ID: 26083117, Protective Effect of the Total Saponins from Rosa laevigata Michx Fruit against Carbon Tetrachloride-Induced Liver Fibrosis in Rats

2. PubMed ID: 21595995, Wang R, Lu M, Zhang J, Chen S, Luo X, Qin Y, Chen H. J Exp Clin Cancer Res. 2011 May 20;30:62. Doi: 10.1186/1756-9966-30-62. Increased Il-10 Mrna Expression In Tumor-Associated Macrophage Correlated With Late Stage Of Lung Cancer.

3. PubMed ID: 27074905, Re-polarizing Myeloid-derived Suppressor Cells (MDSCs) with Cationic Polymers for Cancer Immunotherapy

Visit bosterbio.com/anti-il10-picoband-trade-antibody-a00021-2-boster.html to see all 11 publications.

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