

Anti-Mouse IL-27/P28 Monoclonal Antibody

Catalog Number: M00857

About IL27

Mouse IL-27/p28 Subunit, also known as Interleukin-30, is a member of the IL-12 family of cytokines. When combined with EB13 (Epstein-Barr virus induced gene 3), the heterodimer formed is IL-27. Mouse p28 is a proinflammatory cytokine inducing immunomodulatory effects. Current research is underway to delineate specific biological functions.

Overview

Product Name	Anti-Mouse IL-27/P28 Monoclonal Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Mouse IL-27/P28 Monoclonal Antibody (Catalog # M00857). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse.
Application	ELISA, Flow Cytometry, WB
Clonality	Monoclonal Clone: 3H12.F10 IgG2a kappa
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rat
Uniprot ID	Q8K3I6

Technical Details

Immunogen	Anti-IL-27/p28 monoclonal antibody was produced in rats by repeated immunizations with mature length recombinant mouse p28 protein (produced in E.coli) followed by hybridoma development.
Predicted Reactive Species	Chimpanzee
Isotype	IgG2a kappa
Form	Liquid (sterile filtered)
Concentration	1.0 mg/mL by UV absorbance at 280 nm
Purification	IL-27 / p28 antibody is purified by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for mouse and rat p28 protein. Cross-reactivity with IL-27 from other sources has not been determined.

Suggested Dilutions

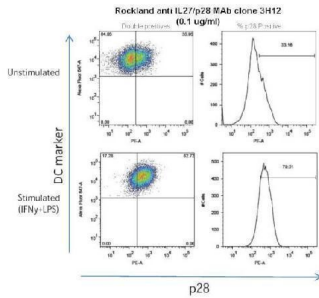
ELISA: 1:10,000

Flow Cytometry: 1 ug / ml

WB: 1:1000

IL-27 is expressed in activated antigen presenting cells including monocytes, endothelial cells, and dendritic cells, for example mouse CD4 splenocytes. This purified antibody has been tested for use in Flow Cytometry, ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 26 KDa in size corresponding to the mature mouse p28 protein, a non-glycosylated polypeptide chain consisting of amino acids, by western blotting in appropriate cell lysate or extract.

Anti-Mouse IL-27/P28 Monoclonal Antibody (M00857) Images



Mouse peritoneal macrophages were grown in culture for 24 hours, stimulated with 10ng/mL IFN gamma and 1ug/mL LPS for 14 hours and incubated for 4 hours with Bredfeldin A. Cells were harvested, washed, aliquoted 1x10⁶ cells per sample, and fixed and permeabilized according to a standard protocol. Samples were stained with biotinylated primary anti-mouse p28 antibody at (0.1-10ug/mL primary antibody alongside negative controls of unstimulated cells and isotype controls. Cells were stained with 0.25ug/mL rat anti-mouse CD107b conjugated Alexa Fluor 647 and PHYCOERYTHRIN Conjugated secondary at 1:100 and analyzed by flow cytometry. Stimulated cells showed increase PE staining (horizontal axis) when compared with unstimulated cells.



Anti-IL-27/p28 antibody in western blot shows detection of recombinant mouse IL-27/p28. Recombinant protein (0.1 µg) was loaded on to an SDS-PAGE gel, and after separation, transferred to nitrocellulose. The expected band is approximately 26 kDa in size. The membrane was blocked with 1% BSA in TBST for 30 min at RT, followed by incubation with Boster's Anti-IL-27/p28 antibody diluted 1:1,000 in 1% BSA in TBST overnight at 4°C. After washes, the blot was reacted with secondary antibody HRP Goat anti-Rat IgG antibody diluted 1:40,000 in blocking buffer for 30 min at RT. Data was collected using Bio-Rad VersaDoc® 4000 MP imaging system.

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