

Product datasheet for **TA397270S**

IL27 Rat Monoclonal Antibody [Clone ID: 3H12.F10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3H12.F10
Applications:	ELISA, FC, WB
Recommended Dilution:	WB: 1:1000 FC: 1 ug/mL ELISA: 1:10,000
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	This Protein A purified monoclonal antibody was produced in rats by repeated immunizations with mature length recombinant mouse p28 protein (produced in E.coli) followed by hybridoma development.
Specificity:	Anti-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. Cross-reactivity with IL-27 from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is three (3) months from date of receipt.
Gene Name:	interleukin 27

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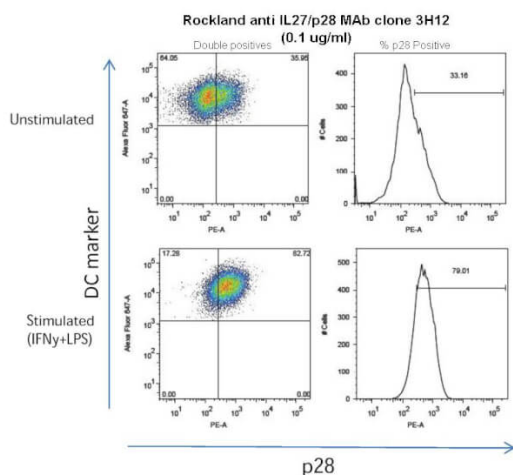
Database Link: [Entrez Gene 246779 Mouse Q8K3I6](#)

Background: Mouse IL-27/p28 Subunit, also known as Interleukin-30, is a member of the IL-12 family of cytokines. When combined with EBI3 (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.

Synonyms: rat anti-IL-27/p28 antibody, rat anti-interleukin 27a antibody, Interleukin-27 subunit alpha, IL-27 subunit alpha, IL-27-A cytokine, IL27-A, p28, IL-30

Note: 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 26,411 Da 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.

Product 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.