



Datasheet for ABIN1043835

## anti-IL-27 antibody



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2 Images

1 Publication

### Overview

Quantity:	100 µg
Target:	IL-27 (IL27)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL-27 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	<p>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.</p> <p>Immunogen Type: Recombinant Protein</p>
Clone:	3H12-F10
Isotype:	IgG2a kappa
Specificity:	<p>This product is an IgG fraction antibody purified from monospecific antiserum 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.</p>
Characteristics:	Mouse IL-27/p28 Subunit, also known as Interleukin-30, is a member of the IL-12 family of

## Product Details

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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.

Purification: purified

Sterility: Sterile filtered

## Target Details

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Target: IL-27 (IL27)

Alternative Name: IL-27/p28 ([IL27 Products](#))

Background: 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.  
Synonyms: Interleukin-27 subunit alpha, IL-27 subunit alpha, IL-27-A cytokine, IL27-A, p28, IL-30

Gene ID: 246779

NCBI Accession: [NP\\_663611](#)

UniProt: [Q8K3I6](#)

## Application Details

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Application Notes: 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 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.

Comment: Gene Name: IL27

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1.0 mg/mL

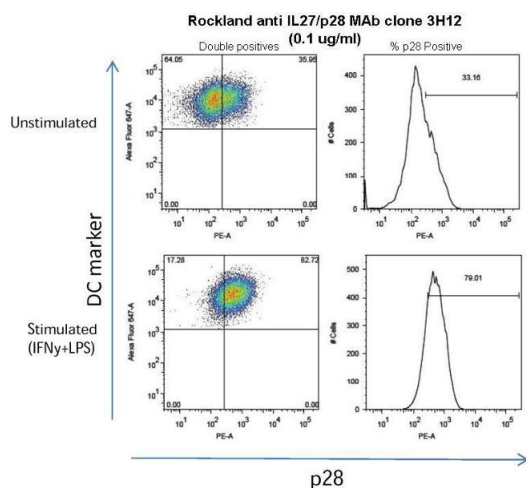
## Handling

Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze 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.
Expiry Date:	12 months

## Publications

Product cited in: Purkey, Woolfrey, Crosby, Stich, Chick, Aoto, DellAcqua: "AKAP150 Palmitoylation Regulates Synaptic Incorporation of Ca<sup>2+</sup>-Permeable AMPA Receptors to Control LTP." in: **Cell reports**, Vol. 25, Issue 4, pp. 974-987.e4, (2018) ([PubMed](#)).

## Validation report #104424 for Immunohistochemistry (IHC)



### Flow Cytometry

**Image 1.** 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 1x10<sup>6</sup> 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.



## Western Blotting

**Image 2.**