

Datasheet for ABIN964791
anti-IL-27 antibody (HRP)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	IL-27 (IL27)
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-27 antibody is conjugated to HRP
Application:	Western Blotting (WB)

Product Details

Immunogen:	This purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full length recombinant mouse IL27/p28 protein. Immunogen Type: RecombinantProtein
Isotype:	IgG
Specificity:	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 IL-27/p28 protein. A BLAST analysis was used to suggest cross-reactivity with IL-27A/p28 from mouse sources based on 100% homology with the immunizing sequence. Based on 90% or greater positive homology, there is a chance of cross-reactivity to rat. Cross-reactivity with IL-27 from other sources has not been determined.
Characteristics:	The cytokine Interleukin 27 (IL-27) is produced in response to inflammation. It is made by activated antigen presenting cells including monocytes, endothelial cells, and dendritic cells. IL-

27 consists of a heterodimeric combination of Epstein-Barr virus-induced molecule 3 (EBI3, or IL-27B) non-covalently linked with IL-27 p28 (or IL-27A). It is a regulator of T helper cell development and suppressor of T-cell proliferation. IL-27 has both pro- and anti-inflammatory properties. It can stimulate cytotoxic T cell activity and induce isotype switching in B-cells. It has diverse effects on innate immune cells. It induces monocytes and mast cells to secrete pro-inflammatory cytokines. When infection is present, IL-27 induces naive CD4+ T cells to proliferate and develop Th1 cell responses. As an anti-inflammatory regulator, IL-27 can inhibit Th1 or Th2 responses and restrict the strength and duration of adaptive immune responses. The IL-27 p28 subunit, a 28 kDa glycoprotein belonging to the type I cytokine family, is homologous to IL-12 p35, IL-23 p19, and IL-6. The EBI3 (Epstein-Barr virus-induced molecule 3, or IL-27B) subunit is a 34 kDa glycoprotein containing two fibronectin type III domains, and belongs to the type I cytokine receptor family. It can exist as a homodimer and can also heterodimerize with IL-12 p35. It is homologous to the p40 subunit of IL-12 and IL-23 and to the extracellular domain of IL-6 R. EBI3 can heterodimerize also with IL-12 p35, or can exist as a homodimer. The heterodimeric IL-27 receptor contains WSX-1 (TCCR) and gp130. WSX-1 is specific for IL-27, and is expressed on resting/naive CD4+ T cells, CD8+ T cells, NK cells, dendritic cells, monocytes, mast cells, and B cells. Gp130, on the other hand, functions as a subunit of the receptor complexes for at least seven other cytokines. IL-27 also promotes effector functions of NK cells and CD8+ T cells.

Target Details

Target:	IL-27 (IL27)
Alternative Name:	IL-27/p28 (IL27 Products)
Background:	<p>The cytokine Interleukin 27 (IL-27) is produced in response to inflammation. It is made by activated antigen presenting cells including monocytes, endothelial cells, and dendritic cells. IL-27 consists of a heterodimeric combination of Epstein-Barr virus-induced molecule 3 (EBI3, or IL-27B) non-covalently linked with IL-27 p28 (or IL-27A). It is a regulator of T helper cell development and suppressor of T-cell proliferation. IL-27 has both pro- and anti-inflammatory properties. It can stimulate cytotoxic T cell activity and induce isotype switching in B-cells. It has diverse effects on innate immune cells. It induces monocytes and mast cells to secrete pro-inflammatory cytokines. When infection is present, IL-27 induces naive CD4+ T cells to proliferate and develop Th1 cell responses. As an anti-inflammatory regulator, IL-27 can inhibit Th1 or Th2 responses and restrict the strength and duration of adaptive immune responses. The IL-27 p28 subunit, a 28 kDa glycoprotein belonging to the type I cytokine family, is homologous to IL-12 p35, IL-23 p19, and IL-6. The EBI3 (Epstein-Barr virus-induced molecule 3,</p>

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Synonyms: Subunit A of IL-27, IL-27A, p28 of IL-27, HRP

Gene ID: 246779

NCBI Accession: [NP_663611](#)

UniProt: [Q8K3I6](#)

Application Details

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 23.6 kDa in size corresponding to the mature mouse IL-27/p28 protein by western blotting in appropriate cell lysate or extract.

Comment: Gene Name: IL27

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 100 μ L

Concentration: 1.0 mg/mL

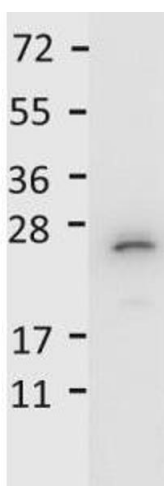
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Preservative: Gentamicin sulfate

Handling

Handling Advice:	Do NOT add Sodium Azide!
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.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Recombinant mouse IL27/p28 was loaded at 0.25 µg. The blot was blocked with 1% BSA in TBST for 30 min at RT. Blot was incubated with HRP rabbit anti-Mouse IL-27/p28 in 1% BSA/TBST at 1:5,000 for 30 min at RT. Data was collected using Bio-Rad 4000 MP.