

Datasheet for ABIN1537798  
**anti-IL-27 antibody (AA 124-150)**



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1 Image

## Overview

|                      |                                      |
|----------------------|--------------------------------------|
| Quantity:            | 400 µL                               |
| Target:              | IL-27 (IL27)                         |
| Binding Specificity: | AA 124-150                           |
| Reactivity:          | Mouse                                |
| Host:                | Rabbit                               |
| Clonality:           | Polyclonal                           |
| Conjugate:           | This IL-27 antibody is un-conjugated |
| Application:         | Western Blotting (WB)                |

## Product Details

|               |   |
|---------------|---|
| Immunogen:    | This Mouse IL27 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 124-150 amino acids from the Central region of mouse IL27. |
| Clone:        | RB40188   |
| Isotype:      | Ig Fraction   |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification.  |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | IL-27 (IL27)   |
| Alternative Name: | IL27 ( <a href="#">IL27 Products</a> )   |
| Background:       | Cytokine with pro-and anti-inflammatory properties, that can regulate T helper cell development, |

## Target Details

suppress T-cell proliferation, stimulate cytotoxic T cell activity, induce isotype switching in B-cells, and that has diverse effects on innate immune cells. Among its target cells are CD4 T helper cells which can differentiate in type 1 effector cells (TH1), type 2 effector cells (TH2) and IL17 producing helper T-cells (TH17). It drives rapid clonal expansion of naive but not memory CD4 T-cells. It also strongly synergizes with IL-12 to trigger interferon-gamma/IFN-gamma production of naive CD4 T-cells, binds to the cytokine receptor WSX-1/TCCR which appears to be required but not sufficient for IL-27-mediated signal transduction. IL-27 potentiates the early phase of TH1 response and suppresses TH2 and TH17 differentiation. It induces the differentiation of TH1 cells via two distinct pathways, p38 MAPK/TBX21- and ICAM1/ITGAL/ERK-dependent pathways. It also induces STAT1, STAT3, STAT4 and STAT5 phosphorylation and activates TBX21/T-Bet via STAT1 with resulting IL12RB2 up-regulation, an event crucial to TH1 cell commitment. It suppresses the expression of GATA3, the inhibitor of TH1 cells development. In CD8 T-cells, it activates STATs as well as GZMB. IL-27 reveals to be a potent inhibitor of TH17 cell development and of IL-17 production. Indeed IL-27 subunit p28 alone is also able to inhibit the production of IL17 by CD4 and CD8 T-cells. While IL-27 suppressed the development of proinflammatory Th17 cells via STAT1, it inhibits the development of anti-inflammatory inducible regulatory T-cells, iTreg, independently of STAT1. IL-27 has also an effect on cytokine production, it suppresses proinflammatory cytokine production such as IL2, IL4, IL5 and IL6 and activates suppressors of cytokine signaling such as SOCS1 and SOCS3. Apart from suppression of cytokine production, IL-27 also antagonizes the effects of some cytokines such as IL6 through direct effects on T cells. Another important role of IL-27 is its antitumor activity as well as its antiangiogenic activity with activation of production of antiangiogenic chemokines such as IP-10/CXCL10 and MIG/CXCL9.

|                   |                           |
|-------------------|---------------------------|
| Molecular Weight: | 26542                     |
| Gene ID:          | 246779                    |
| NCBI Accession:   | <a href="#">NP_663611</a> |
| UniProt:          | <a href="#">Q8K3I6</a>    |

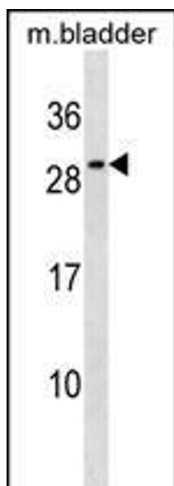
## Application Details

|                    |                       |
|--------------------|-----------------------|
| Application Notes: | WB: 1:1000            |
| Restrictions:      | For Research Use only |

Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.   |
| 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:   | Mouse Il27 Antibody (Center) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, keep at -20 °C.  |
| Expiry Date:       | 6 months   |

Images



Western Blotting

**Image 1.** Mouse Il27 Antibody (Center) (ABIN1537798 and ABIN2838314) western blot analysis in mouse bladder tissue lysates (35 µg/lane). This demonstrates the Il27 antibody detected the Il27 protein (arrow).