

Product datasheet

Anti-IL27-A antibody [3H12] ab123247

画像数 1

製品の概要

製品名	Anti-IL27-A antibody [3H12]
製品の詳細	Rat monoclonal [3H12] to IL27-A
由来種	Rat
アプリケーション	適用あり: WB, IP, ELISA, Flow Cyt
種交差性	交差種: Mouse
免疫原	Recombinant full length Mouse IL27.

製品の特性

製品の状態	Liquid
保存方法	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.20 Constituents: 0.27% Potassium phosphate, 0.88% Sodium chloride
ポリ/モノ	モノクローナル
クローン名	3H12
アイソタイプ	IgG2a
軽鎖の種類	kappa

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab123247** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Predicted molecular weight: 27 kDa.
IP		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.

アプリケーション	Abreviews	特記事項
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Flow Cyt

Use at an assay dependent concentration.

[ab18450](#) - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能

Cytokine with pro- and anti-inflammatory properties, that can regulate T helper cell development, 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 potentiate the early phase of TH1 response and suppress 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 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. In vein endothelial cells, it induces IRF1/interferon regulatory factor 1 and increase the expression of MHC class II transactivator/CIITA with resulting up-regulation of major histocompatibility complex class II. IL-27 also demonstrates antiviral activity with inhibitory properties on HIV-1 replivation.

組織特異性

Expressed in monocytes and in placenta.

配列類似性

Belongs to the IL-6 superfamily.

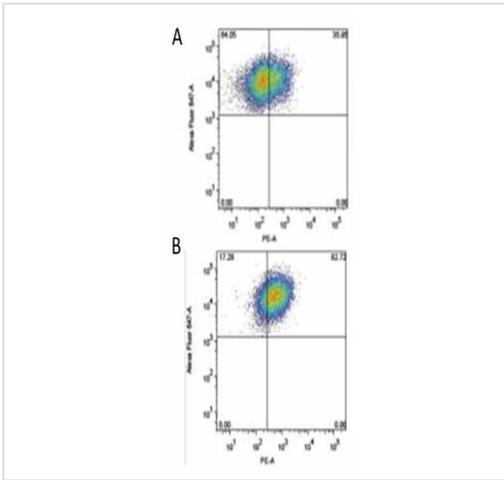
翻訳後修飾

O-glycosylated.

細胞内局在

Secreted. Does not seem to be secreted without coexpression of EB13.

画像



Mouse macrophages were cultured with (B) IFN γ and LPS for 24 hours or remained unstimulated (A). Cells were treated with a protein transport inhibitor for 4 hours and stained with anti-CD107b at the surface and an intracellular stain with anti-p28 clone 3H12.

Other - Anti-IL27 antibody [3H12] (ab123247)

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