abcam

Product datasheet

Anti-IL-17F antibody [EPR17830-169] ab187059

Recombinant RabMAb

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Overview

Product name	Anti-IL-17F antibody [EPR17830-169]
Description	Rabbit monoclonal [EPR17830-169] to IL-17F
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, WB
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse IL17F recombinant protein (aa29-161) ; EL4 cell lysate (treated with PMA, Ionomycin calcuim salt and Brefeldin A). Flow Cyt (intra): EL4 cells treated with PMA, Ionomycin calcuim salt and Brefeldin A. IP: EL4 cells treated with PMA, Ionomycin calcuim salt and Brefeldin A.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17830-169

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab187059 in the following tested applications.

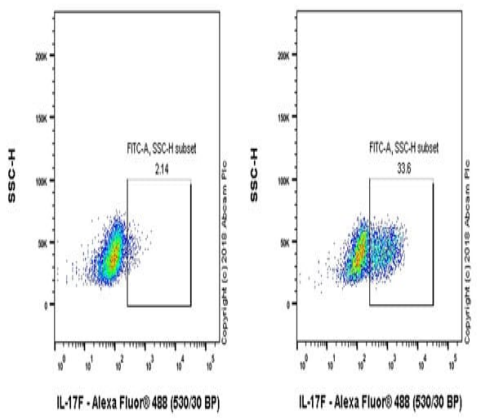
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/60.
IP		1/30.
WB		1/1000. Predicted molecular weight: 18 kDa.

Target

Function	Ligand for IL17RA and IL17RC (PubMed:17911633). The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC (PubMed:18684971). Involved in stimulating the production of other cytokines such as IL6, IL8 and CSF2, and in regulation of cartilage matrix turnover (PubMed:11591732, PubMed:11591768, PubMed:11574464). Also involved in stimulating the proliferation of peripheral blood mononuclear cells and T-cells and in inhibition of angiogenesis (PubMed:11591732). Plays a role in the induction of neutrophilia in the lungs and in the exacerbation of antigen-induced pulmonary allergic inflammation.
Tissue specificity	Expressed in activated, but not resting, CD4+ T-cells and activated monocytes.
Involvement in disease	Candidiasis, familial, 6
Sequence similarities	Belongs to the IL-17 family.
Cellular localization	Secreted.

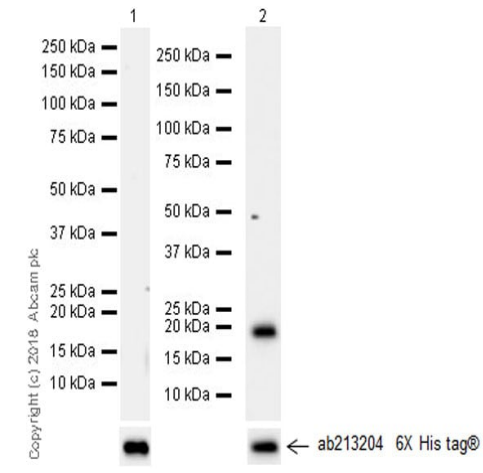
Images



Flow Cytometry (Intracellular) - Anti-IL-17F antibody [EPR17830-169] (ab187059)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed 90% methanol-fixed EL4 (mouse lymphoma T lymphocyte) treated with 50ng/ml Phorbol-12-myristate-13-acetate (PMA) and 500ng/ml Ionomycin calcium salt for 24 hours, and 500ng/ml Brefeldin A (BFA) was added for the last 20 hours (Right) / Untreated control (Left) labeling IL17F with ab187059 at 1/60 dilution.

Secondary antibody used Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at a 1/2000 dilution.



Western blot - Anti-IL-17F antibody [EPR17830-169] (ab187059)

All lanes : Anti-IL-17F antibody [EPR17830-169] (ab187059) at 1/5000 dilution

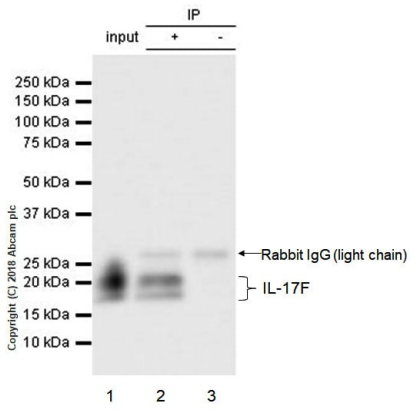
Lane 1 : Mouse IL17A recombinant protein (aa26-158) 10 ng
Lane 2 : Mouse IL17F recombinant protein (aa29-161) 10 ng

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 18 kDa
Observed band size: 18 kDa

Exposure time: 26 seconds

Blocking/Dilution buffer: 5% NFDM/TBST



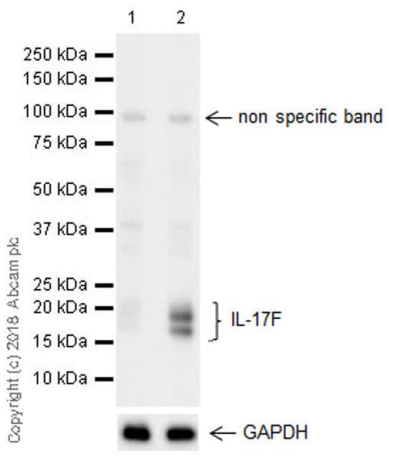
Immunoprecipitation - Anti-IL-17F antibody [EPR17830-169] (ab187059)

IL17F was immunoprecipitated from 0.35 mg of EL4 (mouse lymphoma T lymphocyte) treated with 50 ng/ml phorbol-12-myristate-13-acetate (PMA) and 500 ng/ml ionomycin calcium salt for 24 hours, and 500ng/ml Brefeldin A (BFA) was added for the last 20 hours whole cell lysate with ab187059 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab187059 at 1/1,000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1/5,000 dilution.

Lane 1: EL4 (mouse lymphoma T lymphocyte) treated with 50 ng/ml phorbol-12-myristate-13-acetate (PMA) and 500 ng/ml ionomycin calcium salt for 24 hours, and 500ng/ml Brefeldin A (BFA) was added for the last 20 hours whole cell lysate 10 µg (Input).
Lane 2: EL4 treated with 50 ng/ml phorbol-12-myristate-13-acetate (PMA) and 500 ng/ml ionomycin calcium salt for 24 hours, and 500 ng/ml Brefeldin A (BFA) was added for the last 20 hours whole cell lysate.
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab187059 in EL4 treated with 50 ng/ml phorbol-12-myristate-13-acetate (PMA) and 500 ng/ml ionomycin calcium salt for 24 hours, and 500 ng/ml Brefeldin A (BFA) was added for the last 20 hours whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 10 seconds



Western blot - Anti-IL-17F antibody [EPR17830-169] (ab187059)

All lanes : Anti-IL-17F antibody [EPR17830-169] (ab187059) at 1/1000 dilution

Lane 1 : Untreated EL4 (mouse lymphoma T lymphocyte), whole cell lysate
Lane 2 : EL4 treated with 50 ng/ml phorbol-12-myristate-13-acetate (PMA) and 500 ng/ml ionomycin calcium salt for 24 hours, and 500 ng/ml Brefeldin A (BFA) was added to the treated cells last 20 hours, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 18 kDa
Observed band size: 16-18 kDa

Exposure time: 48 seconds

Blocking/Diluting buffer: 5% NFDM/TBST

The molecular mass observed is consistent with the literature (PMID 2212322).

Expression of IL-17F in EL4 cells is increased by PMA and Ionomycin treatment (PMID 28382171).

Anti-IL-17F antibody [EPR17830-169] (ab187059)

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