

## Product datasheet

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

Recombinant RabMAb

★★★★★ **1 Abreviews** [5 Images](#)

#### Overview

<b>Product name</b>	Anti-IL-17F antibody [EPR17830-169]
<b>Description</b>	Rabbit monoclonal [EPR17830-169] to IL-17F
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Mouse IL17F recombinant protein (aa29-161) ; EL4 cell lysate (treated with PMA, Ionomycin calcium salt and Brefeldin A). Flow Cyt (intra): EL4 cells treated with PMA, Ionomycin calcium salt and Brefeldin A. IP: EL4 cells treated with PMA, Ionomycin calcium salt and Brefeldin A.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	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

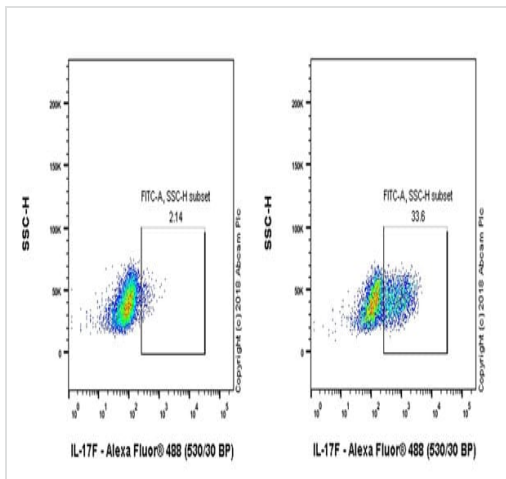
### Sequence similarities

Belongs to the IL-17 family.

### Cellular localization

Secreted.

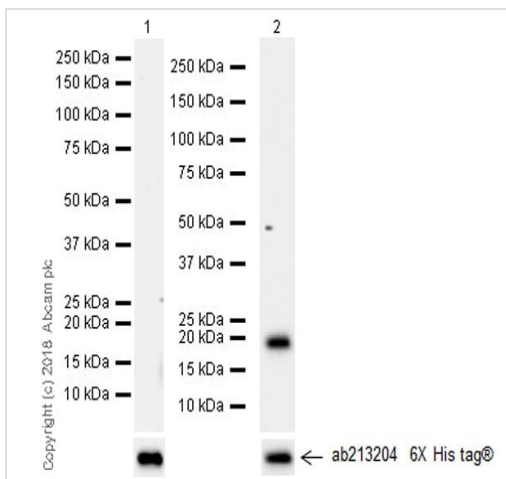
## Images



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

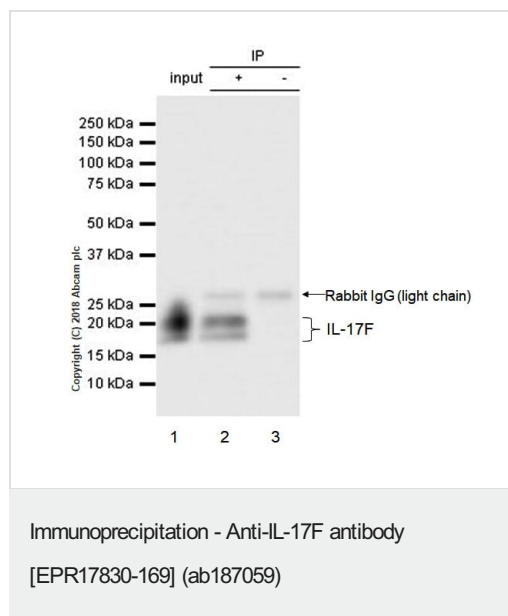
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 18 kDa

**Observed band size:** 18 kDa

**Exposure time:** 26 seconds

**Blocking/Dilution buffer:** 5% NFDM/TBST



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.

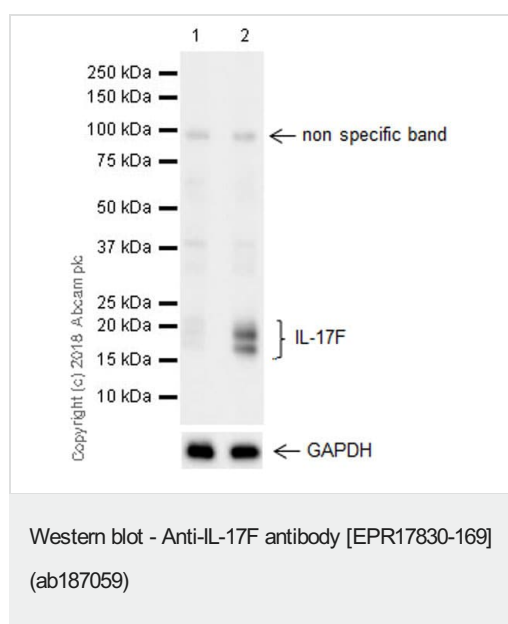
**Lane 1:** EL4 (mouse lymphoma T lymphocyte) treated with 50 ng/ml phorbol-12-myristate-13-acetate (PMA) and 500 ng/ml ionomycin calcium salt for 24 hours, and 500ng/ml Brefeldin A (BFA) was added for the last 20 hours whole cell lysate 10 µg (Input).

**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% NFD/MTBST.

Exposure time: 10 seconds



**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).

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

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

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

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