

## Product datasheet

# Anti-IL-18 antibody [EPR19954] ab207324

**KO VALIDATED** Recombinant RabMAB<sup>®</sup>

[8 References](#) [9 Images](#)

### Overview

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<b>Product name</b>	Anti-IL-18 antibody [EPR19954]
<b>Description</b>	Rabbit monoclonal [EPR19954] to IL-18
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt (Intra)
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human IL-18 active protein; HeLa, A431, Jurkat, HEK-293, PC-3 and HaCaT whole cell lysates; Human skin and ovary cancer lysates. Flow Cyt (intra): PC-3 and HaCaT cells.
<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

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<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>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19954
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab207324 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
WB		1/200. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa).
Flow Cyt (Intra)		1/60.

## Target

### Function

Augments natural killer cell activity in spleen cells and stimulates interferon gamma production in T-helper type I cells.

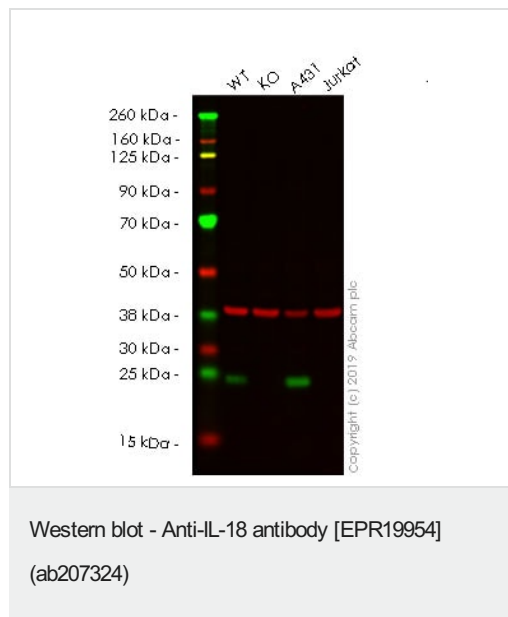
### Sequence similarities

Belongs to the IL-1 family.

### Cellular localization

Secreted.

## Images



**All lanes** : Anti-IL-18 antibody [EPR19954] (ab207324) at 1/200 dilution

**Lane 1** : Wild-type HeLa cell lysate

**Lane 2** : IL18 knockout HeLa cell lysate

**Lane 3** : A431 cell lysate

**Lane 4** : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

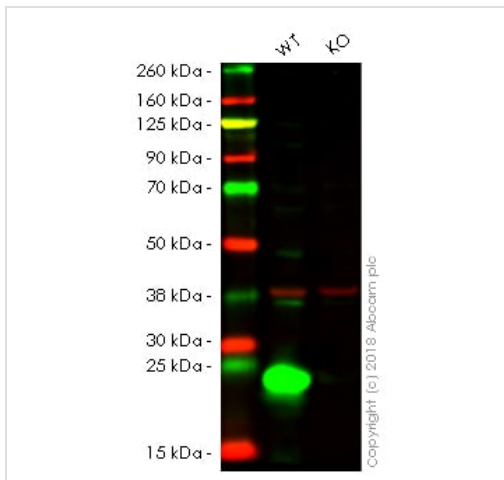
**Predicted band size:** 22 kDa

**Observed band size:** 22 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab207324 observed at 22 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab207324 Anti-IL-18 antibody [EPR19954] was shown to specifically react with IL-18 in wild-type HeLa cells. Loss of signal

was observed when knockout cell line **ab265274** (knockout cell lysate **ab256952**) was used. Wild-type and IL-18 knockout samples were subjected to SDS-PAGE. ab207324 and Anti-alpha Tubulin antibody [EP1332Y] - Microtubule Marker (**ab52866**) were incubated overnight at 4°C at 1 in 200 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-IL-18 antibody [EPR19954] (ab207324)

**All lanes :** Anti-IL-18 antibody [EPR19954] (ab207324) at 1/200 dilution

**Lane 1 :** Wild-type HEK-293 whole cell lysate

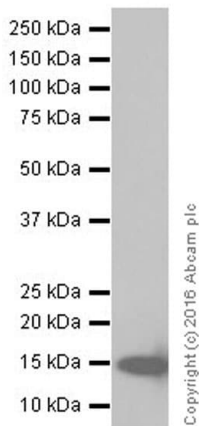
**Lane 2 :** IL-18 knockout HEK-293 whole cell lysate

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 22 kDa

**Lanes 1 - 2:** Merged signal (red and green). Green - ab207324 observed at 22 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab207324 was shown to recognize IL-18 in wild-type HEK293 cells as signal was lost at the expected MW in IL-18 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and IL-18 knockout samples were subjected to SDS-PAGE. Ab207324 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/200 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-IL-18 antibody [EPR19954]  
(ab207324)

Anti-IL-18 antibody [EPR19954] (ab207324) at 1/1000 dilution +  
Human IL-18 active protein at 0.02 µg

**Secondary**

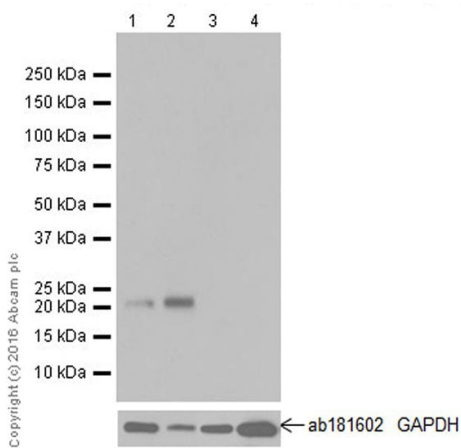
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 22 kDa

**Observed band size:** 17 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-IL-18 antibody [EPR19954]  
(ab207324)

**All lanes :** Anti-IL-18 antibody [EPR19954] (ab207324) at 1/1000 dilution

**Lane 1 :** PC-3 (Human prostate adenocarcinoma cell line) whole cell lysate

**Lane 2 :** HaCaT (Human keratinocyte cell line) whole cell lysate

**Lane 3 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 4 :** Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

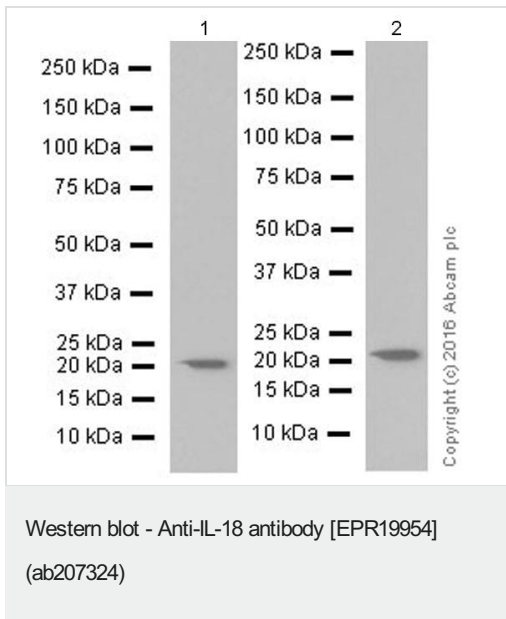
**Predicted band size:** 22 kDa

**Observed band size:** 22 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The WB profiles are consistent with the literature (PMID 12918059; PMID 11470273).



**All lanes** : Anti-IL-18 antibody [EPR19954] (ab207324) at 1/200 dilution

**Lane 1** : Human skin lysate

**Lane 2** : Human ovary cancer lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/5000 dilution

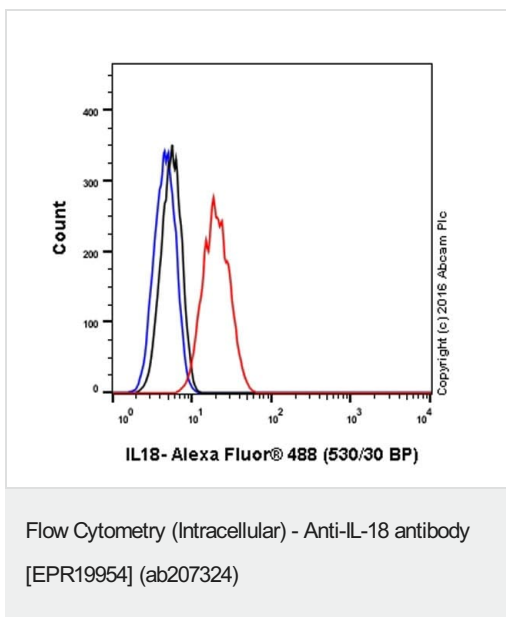
**Predicted band size:** 22 kDa

**Observed band size:** 22 kDa

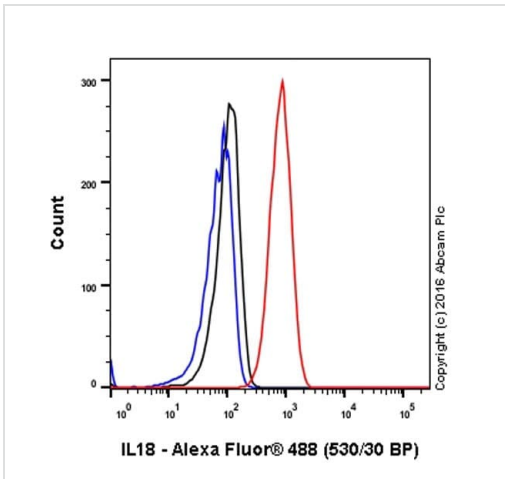
**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFD/MTBST.

Detection in skin and ovary required high concentration of antibody.

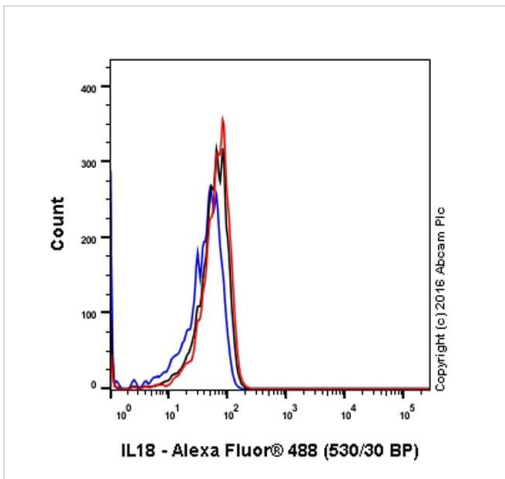


Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed PC-3 (Human prostate adenocarcinoma cell line) cells labeling IL-18 with ab207324 at 1/60 dilution (red) compared with Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HaCaT (Human keratinocyte cell line) cells labeling IL-18 with ab207324 at 1/60 dilution (red) compared with Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**; black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody; blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] (ab207324)



Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling IL-18 with ab207324 at 1/60 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

**Negative control:**

Jurkat cells serve as a negative cell line as described in PMID 15086390.

Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] (ab207324)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-IL-18 antibody [EPR19954] (ab207324)

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

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