

Product datasheet

Anti-IL-18 antibody [EPR19954] ab207324

KO VALIDATED Recombinant RabMAb

4 References 9 Images

Overview

Product name	Anti-IL-18 antibody [EPR19954]
Description	Rabbit monoclonal [EPR19954] to IL-18
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt (Intra)
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	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.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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

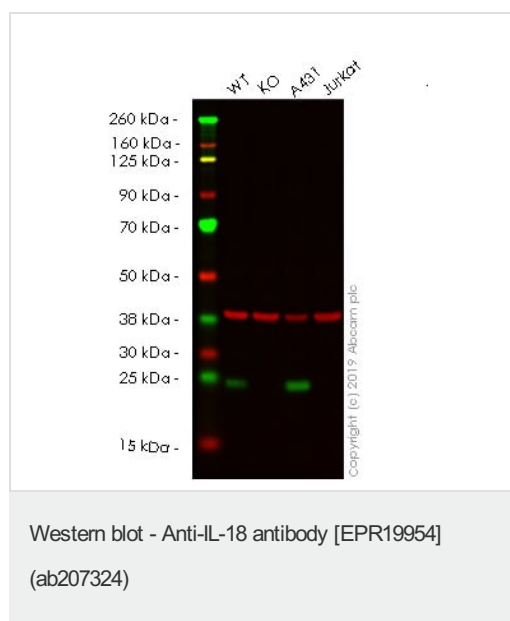
Sequence similarities

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.

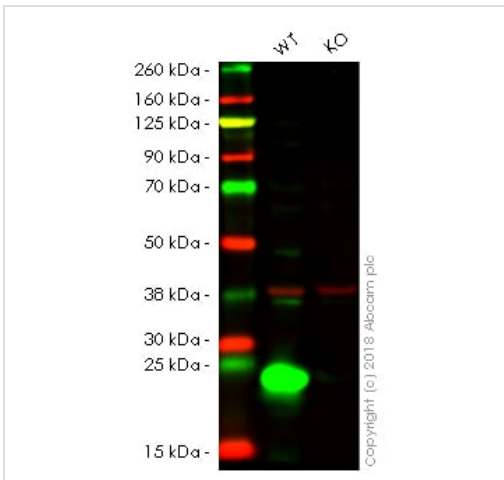
Predicted band size: 22 kDa

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

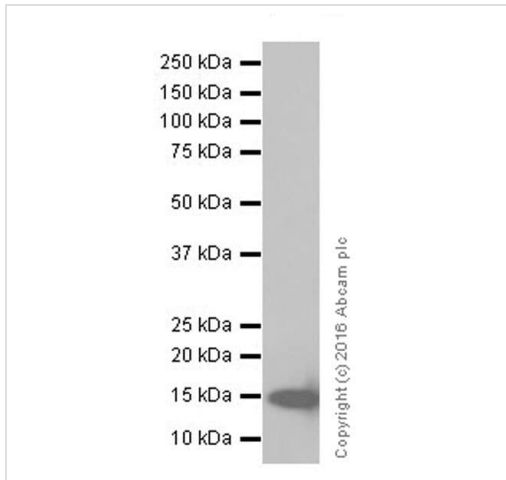
Lane 2 : IL-18 knockout HEK-293 whole cell lysate

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

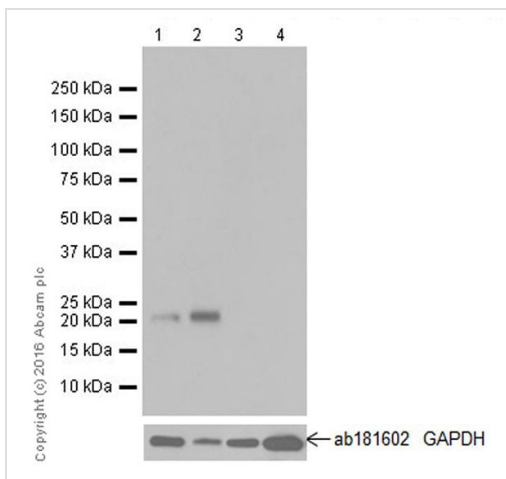
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

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

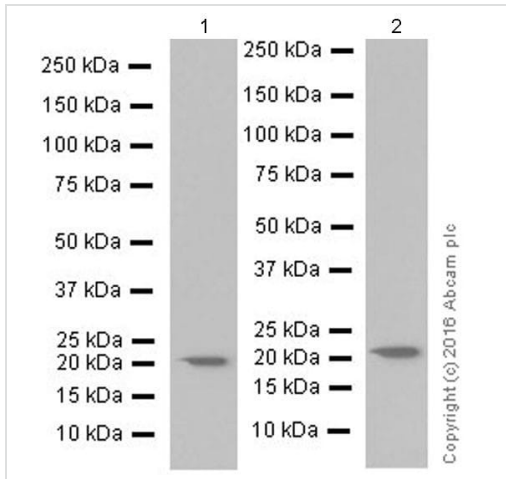
Predicted band size: 22 kDa

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).



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

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

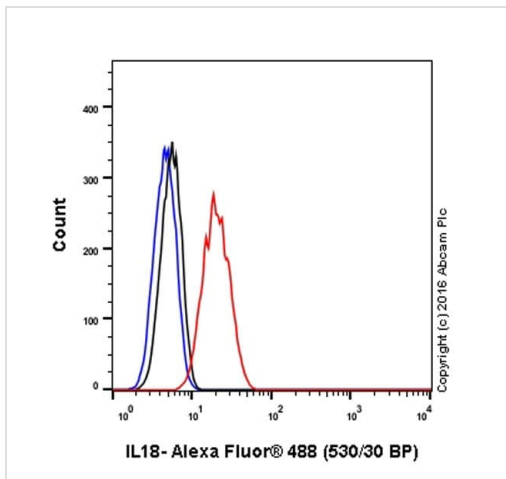
Predicted band size: 22 kDa

Observed band size: 22 kDa

Exposure time: 3 minutes

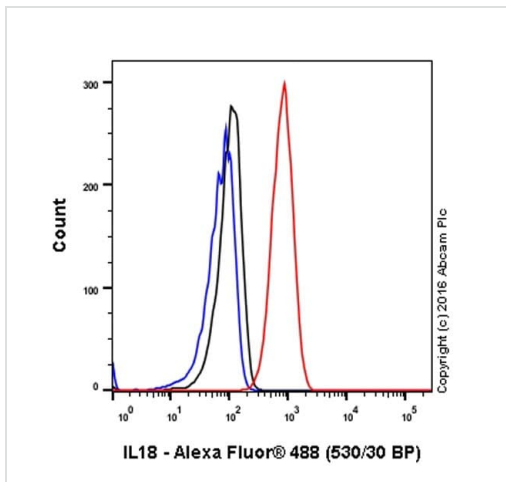
Blocking/Dilution buffer: 5% NFDM/TBST.

Detection in skin and ovary required high concentration of antibody.



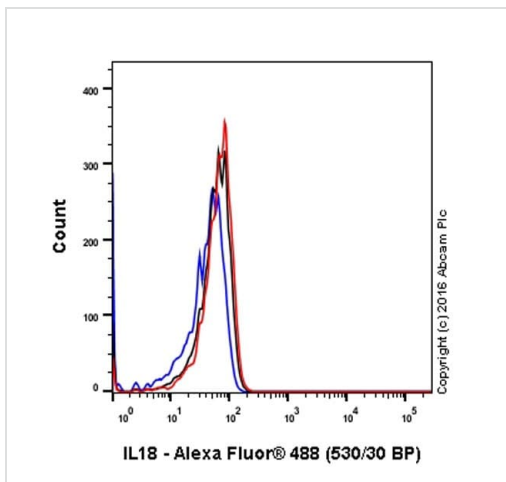
Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] (ab207324)

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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