abcam

Product datasheet

Anti-IL-18 antibody [EPR19954] ab207324

KO VALIDATED Recombinant RabMAb

8 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	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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
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.

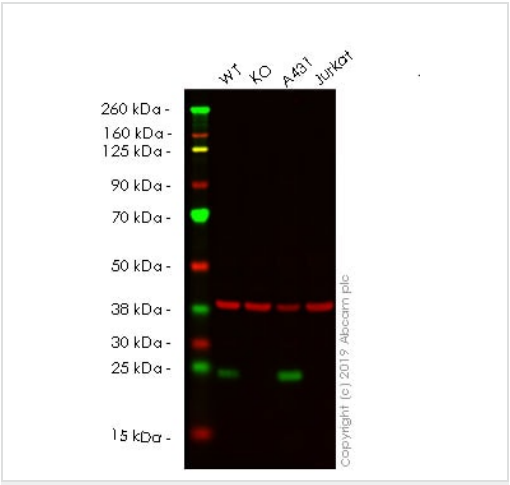
Target

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



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

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.

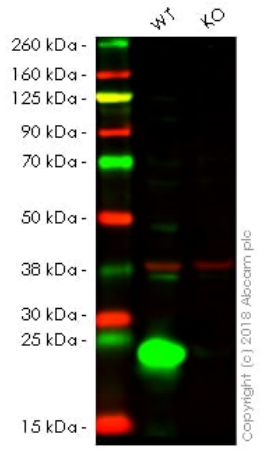
Performed under reducing conditions.

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

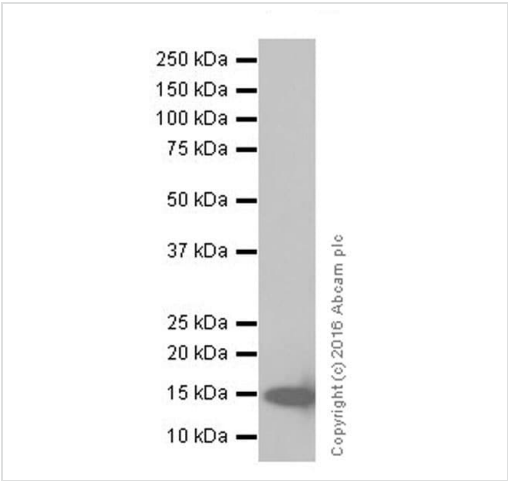
Lane 1 : Wild-type HEK-293 whole cell lysate
Lane 2 : IL-18 knockout HEK-293 whole cell lysate

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) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **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

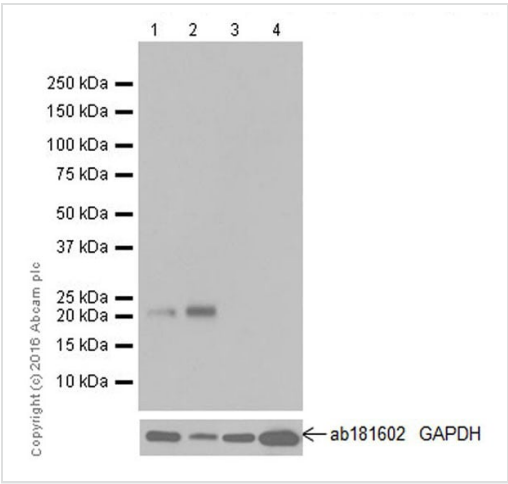
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

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

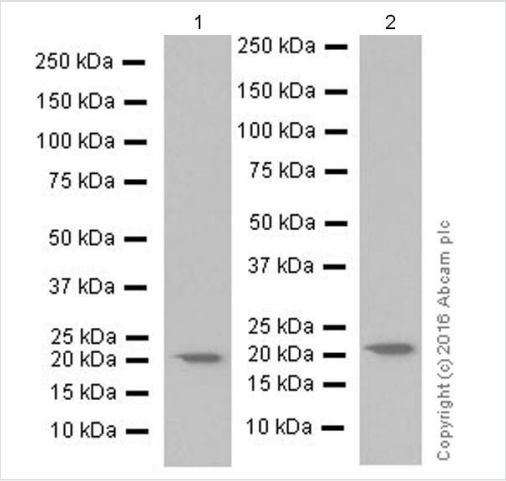
Predicted band size: 22 kDa

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.

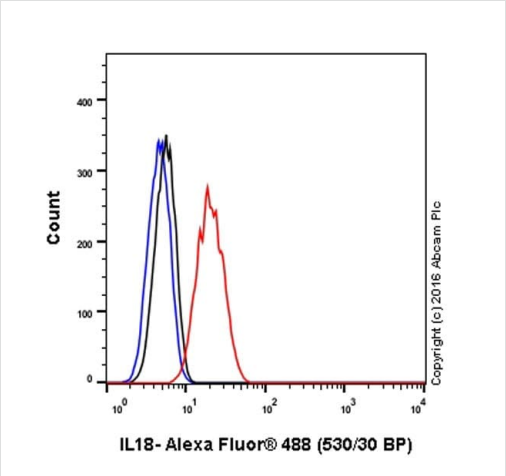
Secondary
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/5000 dilution

Predicted band size: 22 kDa
Observed band size: 22 kDa

Exposure time: 3 minutes

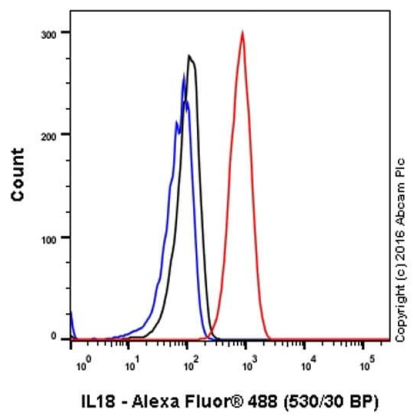
Blocking/Dilution buffer: 5% NFDM/TBST.

Detection in skin and ovary required high concentration of antibody.



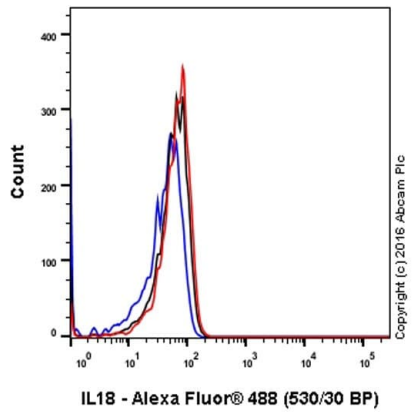
Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] (ab207324)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed PC-3 (Human prostate adenocarcinoma cell line) cells labeling IL-18with 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 Fluorr® 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 HaCaT (Human keratinocyte cell line) cells labeling IL-18with 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 Fluorr® 488) at 1/2000 dilution was used as the secondary antibody.

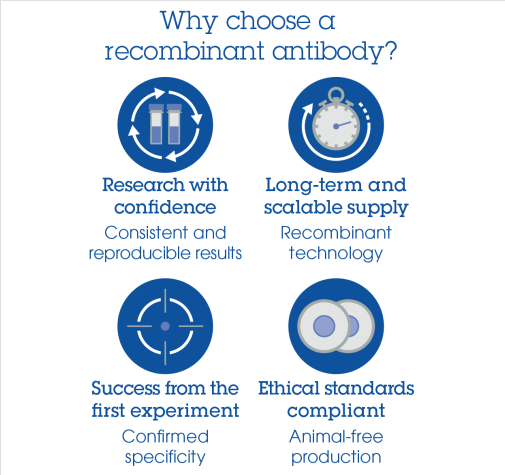


Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] (ab207324)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling IL-18with 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 Fluorr® 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.



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

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