abcam

Product datasheet

Anti-IL-18 antibody [EPR19954] - BSA and Azide free ab222926

KO VALIDATED Recombinant RabMAb

6 Images

Overview

Product name	Anti-IL-18 antibody [EPR19954] - BSA and Azide free
Description	Rabbit monoclonal [EPR19954] to IL-18 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB
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; PC-3, Jurkat, A431, HeLa, HEK-293, and HaCaT cell lysates; Human skin and ovary cancer tissue lysates. Flow Cyt (intra): PC-3 and HaCaT cells.
General notes	ab222926 is the carrier-free version of **ab207324**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19954
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab222926 in the following tested applications.

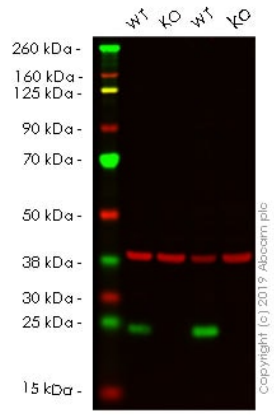
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa).

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] - BSA and Azide free (ab222926)

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.

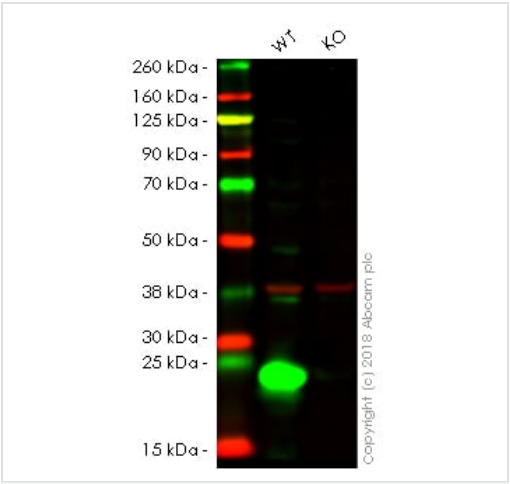
Performed under reducing conditions.

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

This data was developed using the same antibody clone in a different buffer formulation (**ab207324**).

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] - BSA and Azide free (ab222926)

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

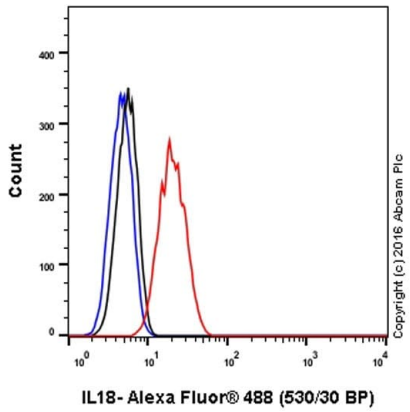
Lysates/proteins at 20 µg per lane.

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.

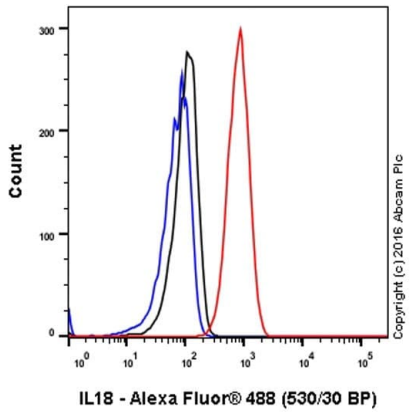
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab207324**).



Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] - BSA and Azide free (ab222926)

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 Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

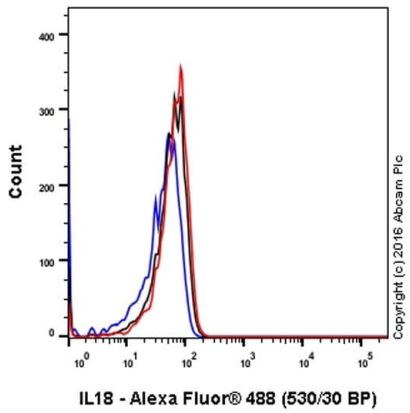
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab207324**).



Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] - BSA and Azide free (ab222926)

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 Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab207324**).



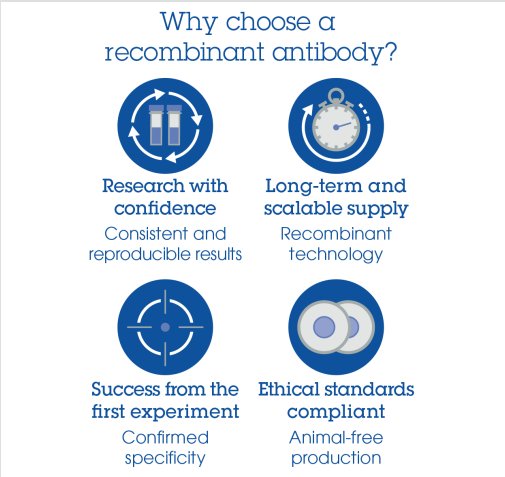
Flow Cytometry (Intracellular) - Anti-IL-18 antibody [EPR19954] - BSA and Azide free (ab222926)

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 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab207324**).



Anti-IL-18 antibody [EPR19954] - BSA and Azide free (ab222926)

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