

Product datasheet

Anti-IL-10 antibody [EPR1114] ab133575

Recombinant RabMAb

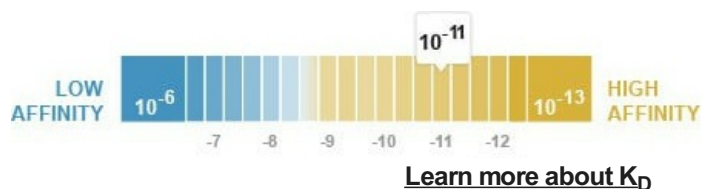
★★★★☆ [4 Abreviews](#) [12 References](#) [8 Images](#)

Overview

Product name	Anti-IL-10 antibody [EPR1114]
Description	Rabbit monoclonal [EPR1114] to IL-10
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human IL-10 aa 1-100. The exact sequence is proprietary. Database link: P22301 (Peptide available as ab169704)
Positive control	Flow Cyt (intra): HeLa cells; Human PBMCs. WB: recombinant IL-10 protein. ICC/IF: Human peripheral blood mononuclear 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> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</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. Stable for 12 months at -20°C.

Dissociation constant (K_D)K_D = 3.70 x 10⁻¹¹ M**Storage buffer**

pH: 7.20
 Preservative: 0.01% Sodium azide
 Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity

Protein A purified

Clonality

Monoclonal

Clone number

EPR1114

Isotype

IgG

Applications**The Abpromise guarantee**Our **Abpromise guarantee** covers the use of ab133575 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)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	1/50 - 1/250.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 18 kDa (predicted molecular weight: 20 kDa). This application will not work using endogenous samples. It reacts only with the recombinant fragment.

Application notes

Is unsuitable for IHC-P.

Target**Function**

Inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells.

Tissue specificity

Produced by a variety of cell lines, including T-cells, macrophages, mast cells and other cell types.

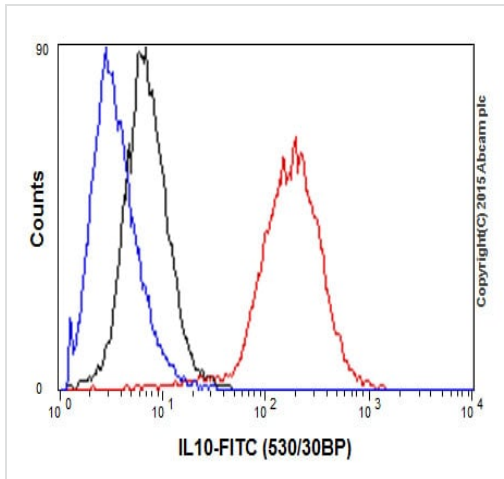
Sequence similarities

Belongs to the IL-10 family.

Cellular localization

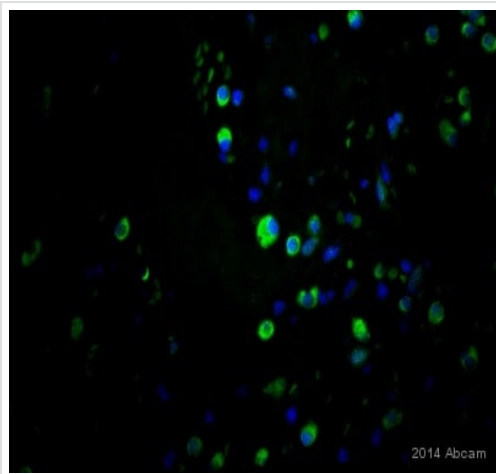
Secreted.

Images



Flow Cytometry (Intracellular) - Anti-IL-10 antibody [EPR1114] (ab133575)

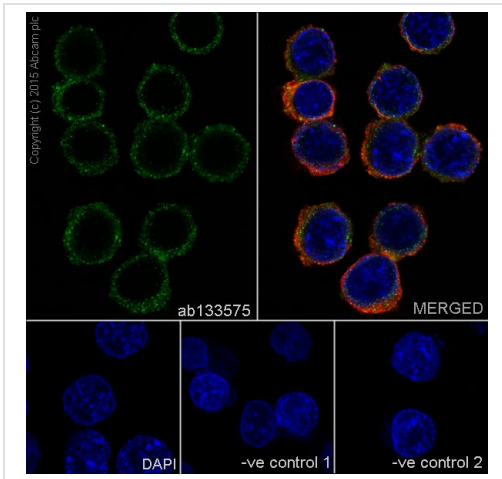
Overlay histogram showing HeLa cells fixed in 4% PFA and stained with purified ab133575 at a dilution of 1 in 300 (red line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 500. Rabbit monoclonal IgG was used as an isotype control (black line) and cells incubated in the absence of both primary and secondary antibody were used as a negative control (blue line).



Immunocytochemistry/ Immunofluorescence - Anti-IL-10 antibody [EPR1114] (ab133575)

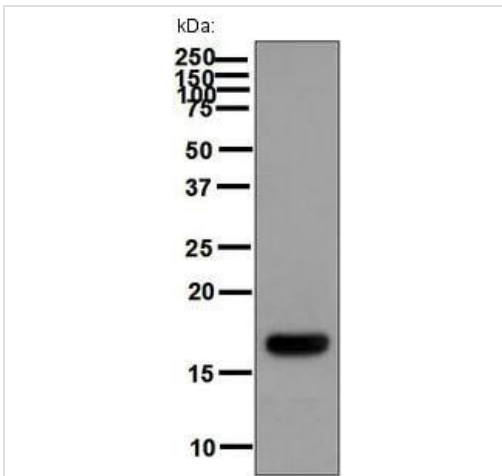
This image is courtesy of an anonymous Abreview

Unpurified ab133575 staining IL-10 in human peripheral blood mononuclear cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Saponin in PBS and blocked with 4% BSA for 30 minutes at 25°C. Samples were incubated with primary antibody (1/100 in blocking buffer) for 16 hours at 4°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal (1/100) was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-IL-10 antibody [EPR1114] (ab133575)

Immunofluorescence staining of Molt-4 cells with purified ab133575 at a working dilution of 1/250, counter-stained with DAPI. The secondary antibody was Alexa Fluor[®] 488 goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. **ab7291**, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with **ab150120** (Alexa Fluor[®] 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab133575 was used at a dilution of 1/500 followed by an Alexa Fluor[®] 594 goat anti-mouse antibody (**ab150120**) at a dilution of 1/500. For negative control 2, **ab7291** (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor[®] 488 goat anti-rabbit antibody (**ab150077**) at a dilution of 1/400.



Western blot - Anti-IL-10 antibody [EPR1114] (ab133575)

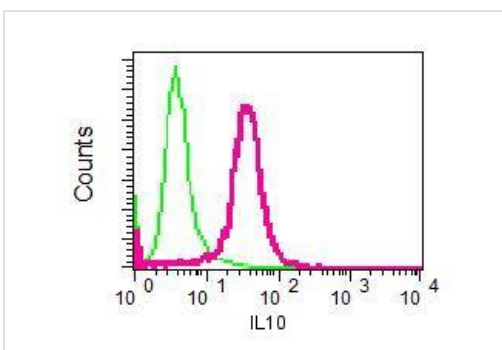
Anti-IL-10 antibody [EPR1114] (ab133575) at 1/1000 dilution (unpurified) + Recombinant IL-10 protein at 0.005 µg

Secondary

Standard HRP labelled goat anti-rabbit at 1/2000 dilution

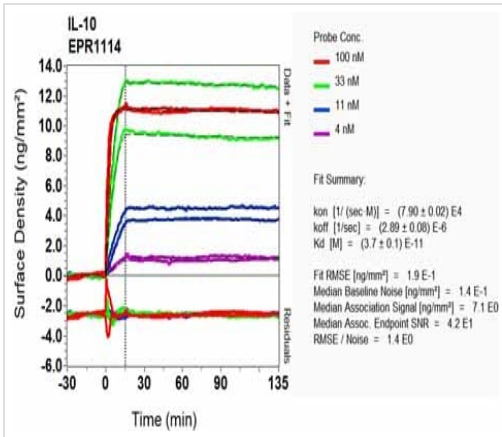
Predicted band size: 20 kDa

Observed band size: 18 kDa



Flow Cytometry (Intracellular) - Anti-IL-10 antibody [EPR1114] (ab133575)

Intracellular Flow Cytometry analysis of permeabilized HeLa cells labelling IL-10 using unpurified ab133575 at a 1/100 dilution (red) or a control rabbit IgG antibody (green).

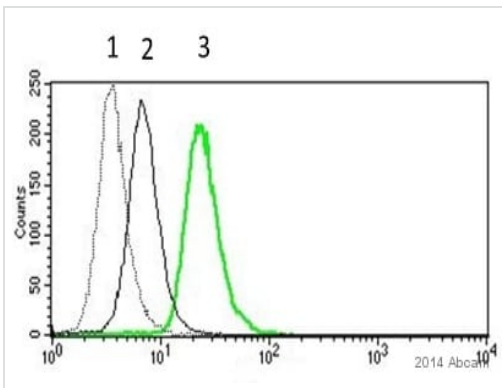


OIR-D Scanning - Anti-IL-10 antibody [EPR1114]
(ab133575)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)



Flow Cytometry (Intracellular) - Anti-IL-10 antibody
[EPR1114] (ab133575)

Intracellular flow cytometric analysis of human PBMCs (peripheral blood mononuclear cells) treated with PHA labeling IL-10 with ab133575 at 1/100 dilution (green), followed by Goat anti-rabbit Alexa Fluor® 488.

1 (dashed line) = isotype control, 2 (black line) = PBMCs untreated, 3 (green line) = PBMCs treated with PHA.

This image is courtesy of an anonymous Abreview.

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-10 antibody [EPR1114] (ab133575)

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