abcam

Product datasheet

Anti-IL-23R antibody [EPR22838-4] ab222104

Recombinant RabMAb

4 Images

Overview

Product name	Anti-IL-23R antibody [EPR22838-4]
Description	Rabbit monoclonal [EPR22838-4] to IL-23R
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, Flow Cyt, Indirect ELISA
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: HEK-293T cells. Flow Cyt: HEK-293T 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: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22838-4
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab222104 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
ICC/IF		1/100.
Flow Cyt		1/50.
Indirect ELISA		Use at an assay dependent concentration.

Target

Function Associates with IL12RB1 to form the interleukin-23 receptor. Binds IL23 and mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade. IL23 functions in innate and adaptive immunity and may participate in acute response to infection in peripheral tissues. IL23 may be responsible for autoimmune inflammatory diseases and be important for tumorigenesis.

Tissue specificity Expressed by monocytes, Th1, Th0, NK and dendritic cells. Isoform 1 is specifically expressed in NK cells.

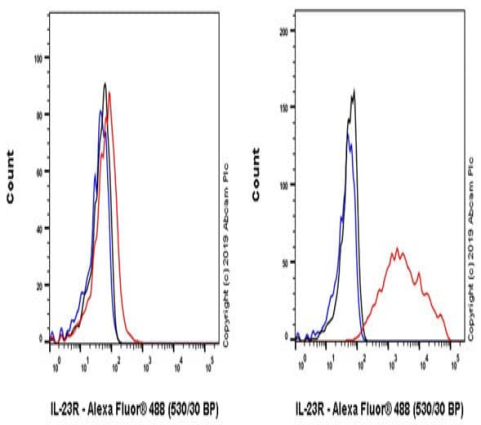
Involvement in disease Genetic variations in IL23R are associated with inflammatory bowel disease type 17 (IBD17) [MIM:612261]. IBD17 is a chronic, relapsing inflammation of the gastrointestinal tract with a complex etiology. It is subdivided into Crohn disease and ulcerative colitis phenotypes. Crohn disease may affect any part of the gastrointestinal tract from the mouth to the anus, but most frequently it involves the terminal ileum and colon. Bowel inflammation is transmural and discontinuous; it may contain granulomas or be associated with intestinal or perianal fistulas. In contrast, in ulcerative colitis, the inflammation is continuous and limited to rectal and colonic mucosal layers; fistulas and granulomas are not observed. Both diseases include extraintestinal inflammation of the skin, eyes, or joints.
Genetic variations in IL23R are a cause of susceptibility to psoriasis type 7 (PSORS7) [MIM:605606]. Psoriasis is a common, chronic inflammatory disease of the skin with multifactorial etiology. It is characterized by red, scaly plaques usually found on the scalp, elbows and knees. These lesions are caused by abnormal keratinocyte proliferation and infiltration of inflammatory cells into the dermis and epidermis.

Sequence similarities Belongs to the type I cytokine receptor family. Type 2 subfamily.
Contains 2 fibronectin type-III domains.

Post-translational modifications Phosphorylated in response to IL23.

Cellular localization Cell membrane.

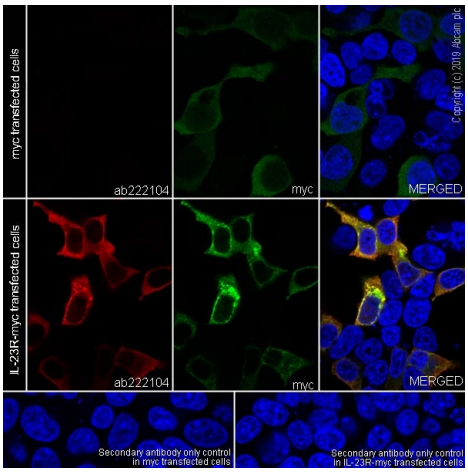
Images



Flow Cytometry - Anti-IL-23R antibody [EPR22838-4] (ab222104)

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with myc-tagged IL-23R expression vector cells labeling IL-23R with ab222104 at 1/50 dilution (1µg)/ Red compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue).

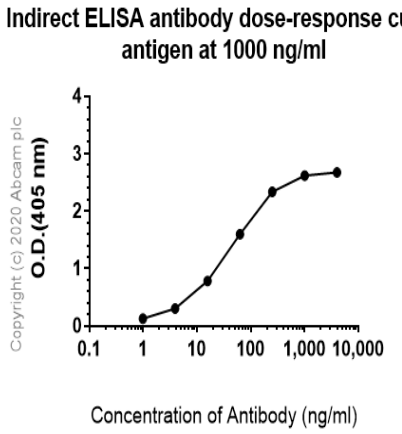
A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody. Cells were surface stained with rabbit IgG (black) or **ab225248** (red). Then fixed with 2% PFA followed by intracellularly stained with anti-myc tag conjugated to Alexa Fluor® 647. Gated on myc(-)(Left) and myc(+) (Right) population respectively.



Immunocytochemistry/ Immunofluorescence - Anti-IL-23R antibody [EPR22838-4] (ab222104)

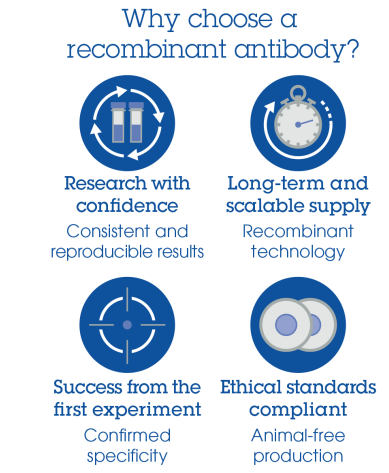
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) cells labeling IL-23R with ab222104 at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in HEK-293T cells transfected with myc-tagged IL-23R expression vector is observed. Myc-Tag (9B11) Mouse mAb (Alexa Fluor® 488 Conjugate) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Indirect ELISA - Anti-IL-23R antibody [EPR22838-4] (ab222104)

ELISA analysis of Human IL23R recombinant protein at 1000 ng/mL with ab222104. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



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