Product datasheet

Anti-IL-23 antibody ab45420

Overview

Product name
Anti-IL-23 antibody

Description
Rabbit polyclonal to IL-23

Host species
Rabbit

Tested applications
Suitable for: ICC/IF, IHC-P, WB

Species reactivity
Reacts with: Mouse, Human

Immunogen
Synthetic peptide corresponding to Human IL-23 (C terminal). 14 amino acid peptide located within the last 50 amino acids of IL23.

Positive control
Raji cells and Raji cell lysates.

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. Avoid freeze / thaw cycle.

Storage buffer
Preservative: 0.02% Sodium azide
Constituent: PBS

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab45420 in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>4</td>
<td>Use a concentration of 10 µg/ml.</td>
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<tr>
<td>IHC-P</td>
<td>4</td>
<td>Use a concentration of 5 µg/ml.</td>
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</table>
Function

Associates with IL12B to form the IL-23 interleukin, an heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to an heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.

Tissue specificity

Secreted by activated dendritic and phagocytic cells and keratinocytes. Also expressed by dermal Langerhans cells (at protein level).

Sequence similarities

Belongs to the IL-6 superfamily.

Developmental stage

Expressed by newborns dendritic cells.

Cellular localization

Secreted. Secreted upon association with IL12B.

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</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 - 4 µg/ml. Detects a band of approximately 24 kDa (predicted molecular weight: 21 kDa).</td>
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Images

Immunohistochemistry of IL-23 in human pancreas tissue with ab45420 at 5 µg/mL.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-23 antibody (ab45420)
Western blot - Anti-IL-23 antibody (ab45420)

**All lanes**: Anti-IL-23 antibody (ab45420) at 1 µg/ml

**Lane 1**: Raji lysate

**Lane 2**: Raji lysate with IL23 P19 blocking peptide

**Predicted band size**: 21 kDa

**Observed band size**: 24 kDa

*why is the actual band size different from the predicted?*

Immunocytochemistry/Immunofluorescence - Anti-IL23 antibody (ab45420)

Ab45420 staining IL23 in Mouse bone marrow derived macrophages by ICC/IF

(Immunocytochemistry/Immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 5% serum for 1 hour at 20°C. Samples were incubated with primary antibody at 1/200 dilution in 5% goat serum in PBS for 1 hour at 20°C. An Alexa Fluor® 488 goat anti-rabbit was used as the secondary antibody.

Immunocytochemistry/Immunofluorescence - Anti-IL-23 antibody (ab45420)

ab45420 at 10 µg/ml staining IL23 in Raji cells by ICC/IF
Immunocytochemistry/ Immunofluorescence - Anti-IL-23 antibody (ab45420)

This image is courtesy of an Abreview submitted by Dr James Harris

ab45420 staining IL23 P19 (green) in Human THP-1 cells by Immunocytochemistry/ Immunofluorescence.

Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 5% serum for 1 hour at 20°C. Samples were incubated with primary antibody (1/200 in 5% goat serum + 1 BSA) for 1 hour at 20°C. An AlexaFluor®488-conjugated goat anti-rabbit polyclonal IgG (1/500) was used as the secondary antibody.

Immunofluorescence of IL-23 in Raji cells using ab45420 at 20 ug/ml.

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