Product datasheet

Anti-IL-2 antibody [EPR2780] ab92381

Overview

Product name: Anti-IL-2 antibody [EPR2780]
Description: Rabbit monoclonal [EPR2780] to IL-2
Host species: Rabbit
Tested applications:
- Suitable for: WB, IHC-P, Flow Cyt, ICC/IF
- Unsuitable for: IP

Species reactivity: Reacts with: Human

Immunogen:
Synthetic peptide within Human IL-2 aa 50-150. The exact sequence is proprietary.

Positive control:

General notes:
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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.

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.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant

**Purity**
Protein A purified

**Clonality**
Monoclonal

**Clone number**
EPR2780

**Isotype**
IgG

**Applications**

Our [Abpromise guarantee](#) covers the use of [ab92381](#) 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>WB</td>
<td></td>
<td>1/1000 - 1/10000. Predicted molecular weight: 18 kDa.</td>
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<tr>
<td>IHC-P</td>
<td><img src="#" alt="4/5" /></td>
<td>1/250 - 1/500. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.</td>
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<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/100.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/500 - 1/1000.</td>
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</table>

**Application notes**
Is unsuitable for IP.

**Target**

**Function**
Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells.

**Involvement in disease**
Note=A chromosomal aberration involving IL2 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(4;16)(q26;p13) with involves TNFRSF17.

**Sequence similarities**
Belongs to the IL-2 family.

**Cellular localization**
Secreted.

**Images**

2
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-2 antibody [EPR2780] (ab92381)

ab92381 at 1/250 dilution staining IL2 in Formalin-fixed, Paraffin-embedded Human tonsil tissue. Detection: DAB staining.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Immunocytochemistry/Immunofluorescence - Anti-IL-2 antibody [EPR2780] (ab92381)

Immunocytochemistry/Immunofluorescence analysis of PBMC (Human primary peripheral blood mononuclear cell) cells labeling IL-2 with purified ab92381 at 1/500 dilution (4.2 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL) was used as the secondary antibody only control.
Western blot - Anti-IL-2 antibody [EPR2780] (ab92381)

All lanes: Anti-IL-2 antibody [EPR2780] (ab92381) at 1/1000 dilution

Lane 1: Human thymus lysate
Lane 2: PBMC lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 18 kDa

Flow Cytometry - Anti-IL-2 antibody [EPR2780] (ab92381)

Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling IL2 with purified ab92381 at 1/100 dilution (10µg/mL) (red). Cells were fixed with 80% methanol and permeabilised using 0.1% Tween-20. A Goat anti rabbit IgG (Alexa Fluor®488) (ab150077) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black) (ab172730). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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