Overview

**Product name**: Anti-IL-21R antibody

**Description**: Rabbit polyclonal to IL-21R

**Host species**: Rabbit

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

**Species reactivity**: Reacts with: Mouse, Rat, Human

**Immunogen**: Synthetic peptide corresponding to Human IL-21R aa 97-111.

**Sequence**: NITDQSGNYSQECGS

(Peptide available as ab6225)

**Positive control**: WB: HepG2 cell lysate. IHC-P: Rat lung tissue. ICC/IF: A431 cells.

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. Stable for 12 months at -20°C.

**Storage buffer**: Preservative: 0.02% Sodium azide

**Constituent**: PBS

**Purity**: Immunogen affinity purified

**Primary antibody notes**: A novel cytokine related to IL-2 and IL-15 was recently identified and designated IL-21. The receptor for IL-21 (IL-21R, also termed NILR for novel Interleukin receptor) is a new member of the class I cytokine receptor family. IL-21R forms a complex with the common cytokine receptor g chain, gc, and mediates IL-21 signaling. Both IL-21R and the gc are necessary for IL-21 function. IL-21 and its receptor activate the JAK-STAT signaling pathway. IL-21R is expressed in spleen, thymus, natural killer (NK), T and B cell lines. IL-21 plays a role in the proliferation and maturation of NK, B and T cell populations.

**Clonality**: Polyclonal

**Isotype**: IgG
Function
This is a receptor for interleukin-21.

Tissue specificity
Selectively expressed in lymphoid tissues. Most highly expressed in thymus and spleen.

Sequence similarities
Belongs to the type I cytokine receptor family. Type 4 subfamily. Contains 2 fibronectin type-III domains.

Domain
The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box 1 motif is required for JAK interaction and/or activation.

Post-translational modifications
C-mannosylated at Trp-214 in the WSXWS motif, the sugar chain makes extensive hydrogen bonds with Asn-73 sugar, and bridges the two fibronectin domains transforming the V-shaped receptor into an A-frame.

Cellular localization
Membrane.

Applications
Our Abpromise guarantee covers the use of ab5980 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>Abviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 20 µg/ml.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 10 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 60 kDa.</td>
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Target

Images

Lane 1: Anti-IL-21R antibody (ab5980) at 1 µg/ml
Lane 2: Anti-IL-21R antibody (ab5980) at 2 µg/ml
All lanes: HepG2 cell lysate

Western blot - Anti-IL-21R antibody (ab5980)
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-21R antibody (ab5980)

ab5980 at 10µg/ml staining IL-21R in rat lung by IHC.

Immunocytochemistry/Immunofluorescence labelling A431 cells with ab5980 at 20µg/ml.

Immunofluorescence of IL-21 Receptor in Rat Lung cells using ab5980 at 20 ug/ml.

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

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