



Product datasheet

Anti-IL-21R antibody ab5980

[8 References](#) [2 Images](#)

Overview

Product name	Anti-IL-21R antibody
Description	Rabbit polyclonal to IL-21R
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human IL-21R aa 97-111. Sequence: NITDQSGNYSQECGS (Peptide available as ab6225) <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: HepG2 cell lysate. IHC-P: Rat lung tissue. ICC/IF: A431 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 long term. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 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 NLR 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 γ chain, γc , and mediates IL-21 signaling. Both IL-21R and the γc 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

Applications

The Abpromise guarantee

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.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 20 μ g/ml.
WB		Use a concentration of 1 - 2 μ g/ml. Detects a band of approximately 60 kDa.

Target

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.

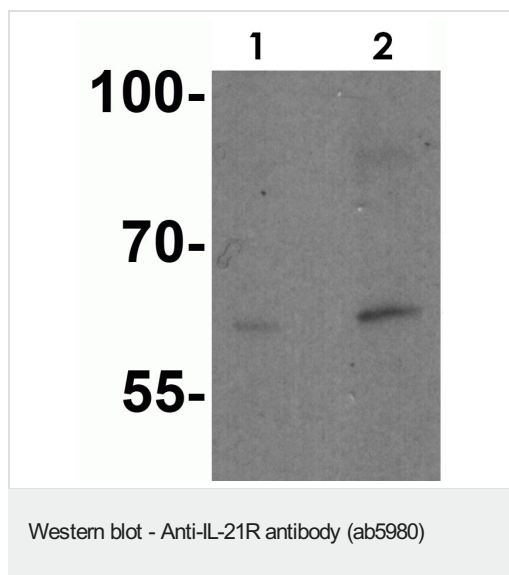
Post-translational modifications

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.

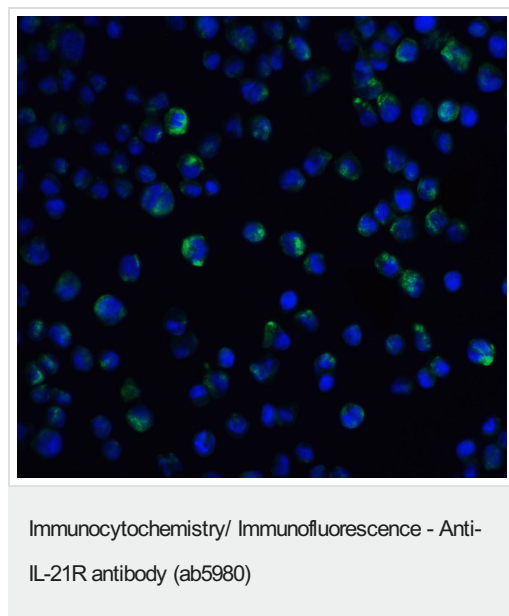
Images



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



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

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

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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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