

Datasheet for 600-401-G98**IL-21 Antibody****Overview**

Description:	Anti-IL-21 (RABBIT) Antibody - 600-401-G98
Item No.:	600-401-G98
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	IL-21 antibody detects human IL-21 precursor. A novel cytokine was recently identified in human and mouse and designated IL-21, which has significant homology to IL-2, IL-4, and IL-15. 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 gamma chain, gamma _c , and mediates IL-21 signaling. IL-21 and its receptor activate JAK-STAT signaling pathway. IL-21 is expressed in activated T cells, and HL-60 and THP-1 cell lines. IL-21 plays a role in the proliferation and maturation of NK, B and T cell populations. Anti-IL-21 antibodies are ideal for investigators involved in Cytokines and Growth factors research.
Synonyms:	Interleukin-21, IL-21, Za11, IL21
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL21
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	IL-21 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to an internal region of human IL-21 precursor. The immunogen is located within the last 50 amino acids of IL-21.

Purity/Specificity: Anti-IL-21 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with IL-21 with Human and bovine based on 100% homology with the immunizing sequence. Cross-reactivity with IL-21 from Pig: (87%); other sources has not been determined. At least two isoforms of IL-21 are known to exist; this antibody will detect both isoforms. IL-21 antibody is predicted to not cross-react with other members of the interleukin protein family.

Relevant Links:

- [NCBI - NP_001193935.1](#)
- [UniProtKB - Q9HBE4](#)
- [GeneID - 59067](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-IL-21 Antibody is tested for use in E, WB, IHC-P, and ICC. Expect a band approximately ~17.9kDa on specific lysates. Positive controls: Human tonsil lysate, mouse spleen lysate, rat spleen lysate. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

IHC: 0.5-2 µg/mL

WB: 0.5-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

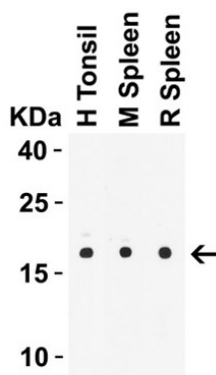
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



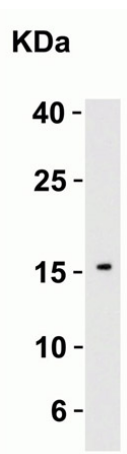
Western Blot

Western Blot Validation using Anti-IL-21.

Loading: 15 μ g of lysates per lane. Lane 1: human tonsil lysate, Lane 2: mouse spleen lysate, Lane 3: rat spleen lysate.

Primary Antibody: Anti-IL-21 at 1 μ g/mL for 1h at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



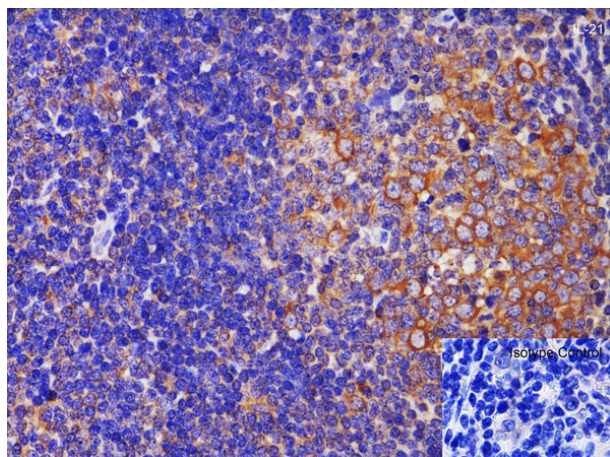
Western Blot

Western Blot Validation of Anti-IL-21 with Recombinant Protein.

Loading: 30 ng of human IL-21 recombinant protein per lane.

Primary Antibody: Anti-IL-21 at 0.5 μ g/mL for 1h at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry

Immunohistochemistry Validation of IL-21.

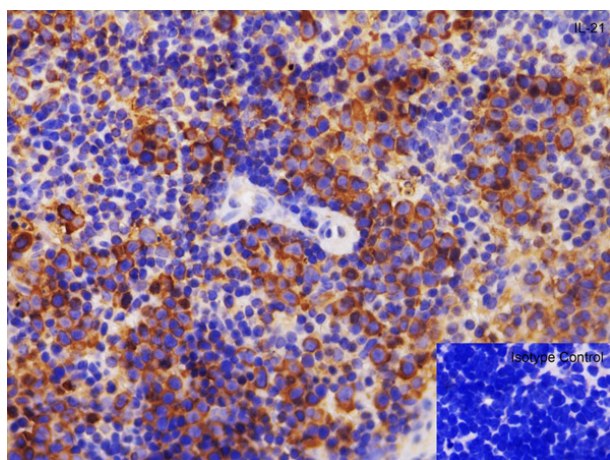
Tissue: Human Tonsil.

Fixation: paraffin-embedded, formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-IL-21 antibody at 1 µg/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



Immunohistochemistry

Immunohistochemistry Validation of IL-21.

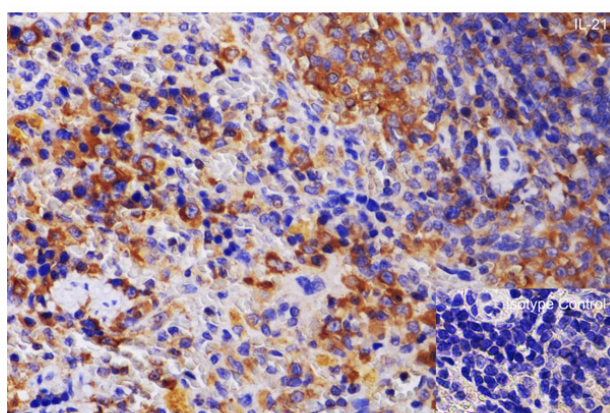
Tissue: Mouse Spleen.

Fixation: paraffin-embedded, formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-IL-21 antibody at 1 µg/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



Immunohistochemistry

Immunohistochemistry Validation of IL-21.

Tissue: Rat Spleen.

Fixation: paraffin-embedded, formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-IL-21 antibody at 1 µg/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.

Disclaimer

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