

# Product Datasheet

## IL-21R Antibody - BSA Free NBP1-76739

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 2

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Updated 3/4/2026 v.20.1

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**NBP1-76739**

IL-21R Antibody - BSA Free

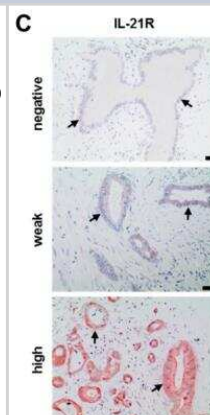
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	62 kDa

Product Description	
Host	Rabbit
Gene ID	50615
Gene Symbol	IL21R
Species	Human, Mouse, Rat
Immunogen	Antibody was raised against a synthetic peptide corresponding to amino acids 97 to 111 of human IL-21 receptor precursor. The immunogen is located within amino acids 80 - 130 of IL-21 Receptor. Amino Acid Sequence: NITDQSGNYSQECGS

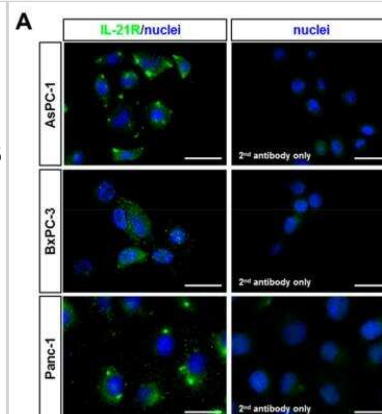
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 10 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 10 ug/ml
Application Notes	An approximately 60 kDa band can be detected in Western Blot. Use in ICC/IF was reported in scientific literature (PMID: 31540511).

**Images**

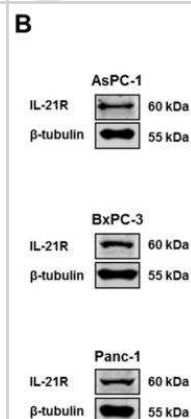
Immunohistochemistry: IL-21R Antibody [NBP1-76739] - Examples of negative, weak and high expression of IL-21R (brown) in human PDAC tissue. Black arrows: tumor cells. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2073-4409/8/9/1104>) licensed under a CC-BY license.



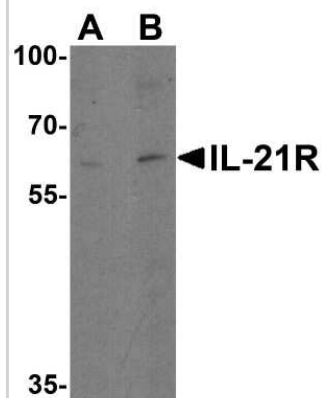
Immunocytochemistry/Immunofluorescence: IL-21R Antibody [NBP1-76739] - IL-21R expression in human PDAC cell lines. Untreated human PDAC cell lines AsPC-1, BxPC-3, and Panc-1 were tested for IL-21R expression in (A) immunofluorescence staining (left: IL-21R+ cells, right: Alexa488 goat anti-rabbit IgG only; nuclei: DAPI (blue), IL-21R: Alexa488 (green)). White bar: 20  $\mu$ m. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2073-4409/8/9/1104>) licensed under a CC-BY license.



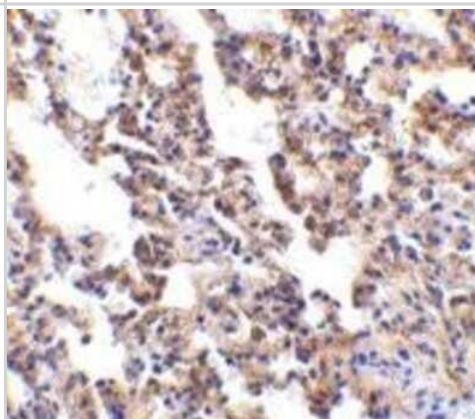
Western Blot: IL-21R Antibody [NBP1-76739] - IL-21R expression in human PDAC cell lines. Untreated human PDAC cell lines AsPC-1, BxPC-3, and Panc-1 were tested for IL-21R expression in Western Blot. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2073-4409/8/9/1104>) licensed under a CC-BY license.



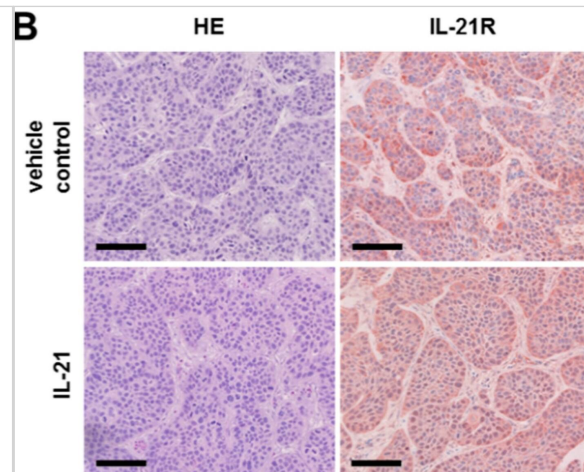
Western Blot: IL-21R Antibody [NBP1-76739] - Western blot analysis of IL-21 receptor expression in human HepG2 cell lysate with IL-21 receptor antibody at (A) 1 and (B) 2  $\mu$ g/ml.



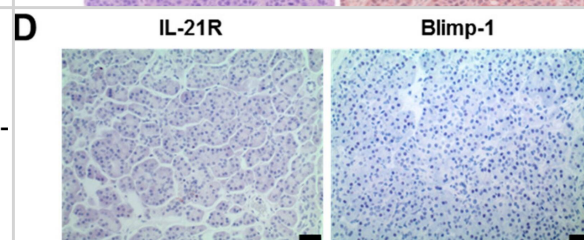
Immunohistochemistry-Paraffin: IL-21R Antibody [NBP1-76739] - Rat lung with IL-21 receptor antibody at 10  $\mu$ g/ml.



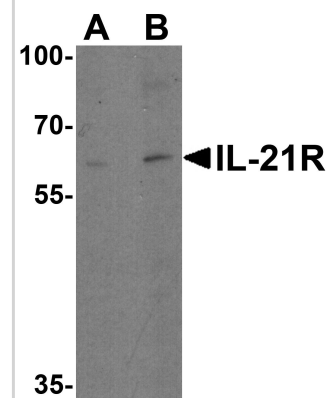
**Immunohistochemistry: IL-21R Antibody - BSA Free [NBP1-76739] - Treatment of avian xenografts with IL-21 upregulates Blimp-1 expression.** (A) The three-dimensional growth of BxPC-3 cells transplanted on the CAM of fertilized chicken eggs & resected tumors (three replicates) from vehicle control & IL-21 were photographed at day 17 of embryonic development. Upper row for vehicle control; lower row for IL-21-treated (150 ng/mL) tumors. (B) HE & IL-21R (brown) IHC staining of vehicle control & IL-21-treated (150 ng/mL) resected xenograft tumors. (C) Comparison & quantification of Blimp-1 (nuclei: red) expression of vehicle control & IL-21-treated (150 ng/mL) xenograft tumors. \*\*\*\*  $P < 0.0001$ . Unpaired t-test. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31540511>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



**Immunohistochemistry: IL-21R Antibody - BSA Free [NBP1-76739] - IL-21R, IL-21, & Blimp-1 expression in human PDAC & healthy pancreas tissue samples.** (A) Infiltration of IL-21+ immune cells (red) in PDAC. Black arrow: IL-21+ cells. (B) Infiltration of IL-21+ Th17 cells in PDAC: IL-21+ (red) & RORC+ (brown) cells. Black arrowhead: PDAC tumor cells, black arrow: IL-21+/RORC+ immune cells. (C) Examples of negative, weak & high expression of IL-21R (brown) & Blimp-1 (red) in human PDAC tissue. Black arrows: tumor cells. (D) Examples of IL-21R & Blimp-1 expression in healthy pancreas tissue. (E) IL-21R expression in human PDAC varied among the patients. (F) Association of IL-21R & Blimp-1 expression in human PDAC. \*  $P < 0.05$  & \*\*\*\*  $P < 0.0001$ . Unpaired t-test. (G) Co-expression of IL-21R (brown, membrane) & Blimp-1 (red, nucleus). Black arrowhead: IL-21R+/Blimp-1+, white arrow head: IL-21R+/Blimp-1-. Black bar: 20  $\mu\text{m}$ . Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31540511>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

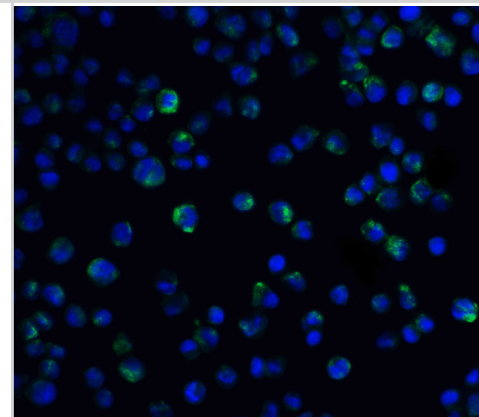


**Western Blot: IL-21R Antibody - BSA Free [NBP1-76739] - Western blot analysis of IL-21R in human HepG2 cell lysate with IL-21 receptor antibody at (A) 1 and (B) 2 u/ml.**

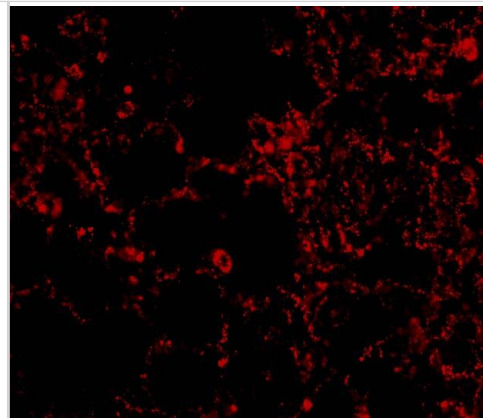


**Immunocytochemistry/ Immunofluorescence: IL-21R Antibody - BSA Free [NBP1-76739] - Immunofluorescence of IL21R in A431 cells with IL 21 Receptor antibody at 20 u/mL.**

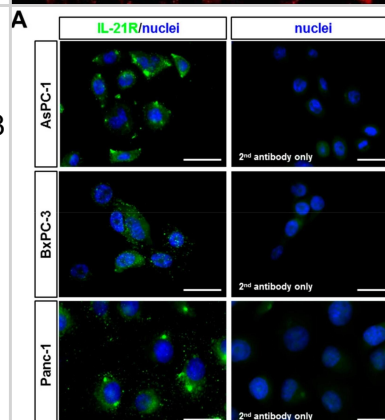
Green: IL-21 Receptor Antibody  
Blue: DAPI staining



Immunocytochemistry/ Immunofluorescence: IL-21R Antibody - BSA Free [NBP1-76739] - Immunofluorescence of IL-21 Receptor in Rat Lung cells with IL-21 Receptor antibody at 20 u/mL.



IL-21R expression in human PDAC cell lines. Untreated human PDAC cell lines AsPC-1, BxPC-3, and Panc-1 were tested for IL-21R expression in (A) immunofluorescence staining (left: IL-21R+ cells, right: Alexa488 goat anti-rabbit IgG only; nuclei: DAPI (blue), IL-21R: Alexa488 (green)) and (B) western blot. White bar: 20 um. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/31540511>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Mayer P, Linnebacher A, Glennemeier-Marke H et al. The Microarchitecture of Pancreatic Cancer as Measured by Diffusion-Weighted Magnetic Resonance Imaging Is Altered by T Cells with a Tumor Promoting Th17 Phenotype *Int J Mol Sci* 2020-01-05 [PMID: 31948053] (IF/IHC, IHC-P, Human)

Linnebacher A, Mayer P, Marnet N et al. Interleukin 21 Receptor/Ligand Interaction Is Linked to Disease Progression in Pancreatic Cancer Cells 2019-09-18 [PMID: 31540511] (IF, WB, IF/IHC)



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### **Products Related to NBP1-76739**

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NBP1-76739PEP	IL-21R Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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