

IL21 Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8931a

Specification

IL21 Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Isotype

WB, IHC-P, FC,E
O9HBE4
Human
Rabbit
Polyclonal
Rabbit IgG

IL21 Antibody - Additional Information

Gene ID 59067

Other Names

Interleukin-21, IL-21, Za11, IL21

Target/Specificity

This IL21 antibody is generated from rabbits immunized with human IL21.

Dilution

WB~~1:1000 IHC-P~~1:10~50 FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IL21 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL21 Antibody - Protein Information

Name IL21 (HGNC:6005)

Function Cytokine with immunoregulatory activity. May promote the transition between innate and adaptive immunity. Induces the production of IgG(1) and IgG(3) in B-cells (By similarity). Implicated in the generation and maintenance of T follicular helper (Tfh) cells and the formation of germinal-centers. Together with IL6, control the early generation of Tfh cells and are critical for an effective antibody response to acute viral infection (By similarity). May play a role in proliferation





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and maturation of natural killer (NK) cells in synergy with IL15. May regulate proliferation of mature B- and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells (PubMed: 11081504, PubMed: 15178704). During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation (By similarity).

Cellular Location Secreted.

Tissue Location

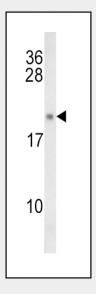
Expressed in activated CD4-positive T-cells but not in CD8-positive T-cells, B-cells, or monocytes

IL21 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

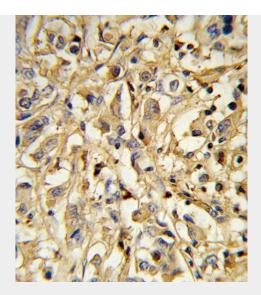
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IL21 Antibody - Images

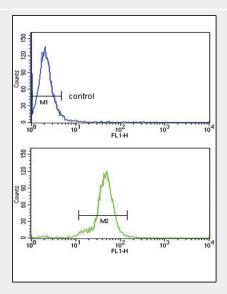


Western blot analysis of IL21 (Cat. #AP8931a) in MDA-MB435 cell line lysates (35ug/lane). IL21 (arrow) was detected using the purified Pab.





Formalin-fixed and paraffin-embedded human breast carcinoma reacted with IL21 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



IL21 Antibody (Cat.#AP8931a) flow cytometry analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IL21 Antibody - Background

IL21 may promote the transition between innate and adaptive immunity. It induces the production of IgG(1) and IgG(3) in B-cells (By similarity). It may play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL15 and may regulate proliferation of mature B-and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells. During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation.

IL21 Antibody - References

Sivakumar P.V., et.al., Immunology 112:177-182(2004).