

Anti-IL-21

CATALOG No.: PX204A SIZE: 100 μg

PX204B SIZE: 0.5 mg

BACKGROUND:

A novel cytokine was recently identified in human and mouse and designated IL-21 (1), which has significant homology to IL-2, IL-4, and IL-15. 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 (1,2). IL-21R forms a complex with the common cytokine receptor γ chain, γ_{c} , and mediates IL-21 signaling (3,4). 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.

SOURCE:

Rabbit anti-IL-21 polyclonal antibody was raised against a synthetic peptide (TCPSCDSYEKKPPKE) corresponding to amino acids 121 to 135 of human IL-21 precursor (1).

APPLICATION:

This antibody can be used for detection of IL-21 by Western blot at 0.5 to 1 μ g/ml. Human HL-60 and THP-1 cell lysates can be used as positive control and an approximately 18 kDa band can be detected.

For research use only.

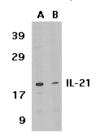
STORAGE:

It is supplied as immunoaffinity purified IgG, 100 μ g in 200 μ l of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

RELATED PRODUCTS:

Blocking peptide, 50 μg at 200 $\mu g/ml$, is available for competition studies.

Human HL-60 cell lysate, 200 µg at 2 mg/ml, is available for positive control.



Western blot analysis of IL-21 expression in HL-60 cell lysate in the absence (lane A) or presence of blocking peptide (lane B) with anti-IL-21 (IN) at 1 µg /ml.

REFERENCES:

- 1. arrish-Novak J, Dillon SR, Nelson A, et al. Interleukin 21 and its receptor are involved in NK cell expansion and regulation of lymphocyte function. *Nature*. 2000;408(6808):57-63.
- 2. Ozaki K, Kikly K, Michalovich D, et al. Cloning of a type I cytokine receptor most related to the IL-2 receptor beta chain. *Proc Natl Acad Sci USA*. 2000;97(21):11439-44.
- 3. Asao H, Okuyama C, Kumaki S, et al. the common gamma-chain is an indispensable subunit of the IL-21 receptor complex. *J Immunol.* 2001;167(1):1-5.
- 4. Vosshenrich CA, Di Santo JP. Cytokines: IL-21 joins the gamma(c)-dependent network? *Curr Biol.* 2001;11(5):R175-7.

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