

Product Data Sheet

Purified anti-human/mouse IL-21

Catalog # / Size: 514201 / 50 µg
Clone: 5H3-O12-L23
Isotype: Mouse IgG1, κ
Immunogen: Recombinant full length human IL-21
Reactivity: Human, **Cross-Reactivity:** Mouse* - weak affinity
Preparation: The antibody was purified by affinity chromatography.
Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.
Concentration: 0.5 mg/ml
Storage: Upon receipt, store frozen at 4°C.

Applications:

Applications: WB - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.



Recombinant Human IL-21 (lane 1) and Mouse IL-21 (lane 2) were resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-HU/MU IL-21 antibody (clone 5H3-O12-L23). Proteins were visualized using a goat anti-mouse IgG secondary conjugated to HRP and chemiluminescence detection.

Description: Interleukin 21 (IL-21) is a potent immunomodulatory cytokine mainly produced by NKT and CD4+ T-cells, particularly the inflammatory Th17 subset and has pleiotropic effects on both innate and adaptive immune responses. These actions include positive effects such as enhancing proliferation of NK cells and cytotoxic T cells, and inhibitory effects on the antigen-presenting function of dendritic cells. It can also be proapoptotic for B cells and NK cells. Recent studies have shown that IL-21 is also an autocrine cytokine that potently induces T(H)17 differentiation and suppresses Foxp3 expression, and serves as a target for treating inflammatory diseases.

Antigen References:

1. Nurieva R, *et al.* 2007. *Nature* 448:416.
2. Parrish-Novak J, *et al.* 2002. *J. Leukocyte Biol.* 72:856.
3. Dumoutier L, *et al.* 2000. *Proc. Natl. Acad. Sci. USA* 97:10144.
4. Asao H, *et al.* 2001. *J. Immunol.* 167:1.
5. Parrish-Novak J, *et al.* 2000. *Nature* 408:57.

Related Products:

Product
Purified Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
HRP Goat anti-mouse IgG (minimal x-reactivity)

Clone
MOPC-21

Poly4053

Application

FC, ICFC, ICC, IF, IHC, IP, WB
FC, ICC, ICFC
FC, ICFC
ELISA, IHC, WB



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