

Biotin anti-human IL-21

Catalog # / Size: 513101 / 50 µg
513102 / 500 µg

Clone: 2B2-G20

Isotype: Mouse IgG1, κ

Immunogen: Recombinant full length human IL-21

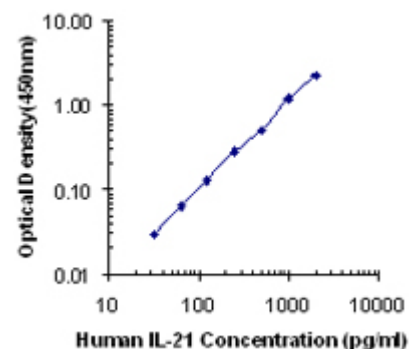
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Applications:

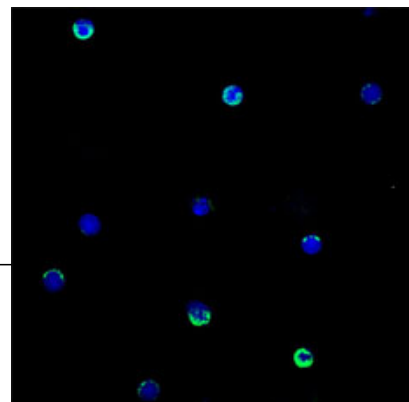
Applications: ELISA Detection - *Quality tested*
IF - *Validated*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA detection applications, a concentration range of 0.5-2.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-21 recombinant protein ranging from 2000 to 15 pg/ml are recommended for each ELISA plate.

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. 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.



Human PBMCs, stimulated with 1 µg/ml of LPS for 8 h and treated with Brefeldin A during the last 4 h, were prepared by cytopsin, fixed and permeabilized on a slide and then treated with endogenous biotin blocking kit (Vector labs). Slides were stained with anti-human IL-21 biotin (clone 2B2-G20) and DyLight™ 649 streptavidin (green) and counterstained with DAPI (blue). Images were acquired with an Olympus FV10i confocal microscope. Images courtesy of Teresa Rodriguez, Darius Schneider, and Matthias von Herrath, LaJolla Institute for Allergy and Immunology.



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