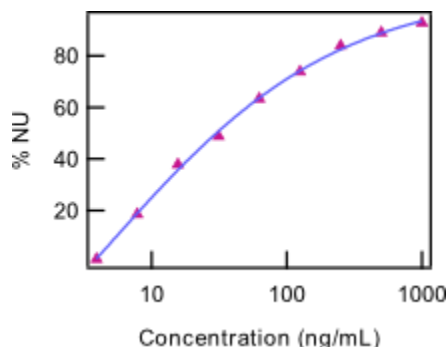


Anti-Human/Mouse IL-22 Functional Grade Purified

Catalog Number: 16-7222

Also known as: Interleukin-22, IL22

RUO: For Research Use Only. Not for use in diagnostic procedures.



Neutralization of IL-22 Recombinant Protein activity as measured by IL-10 induction in COLO205 cells

Product Information

Contents: Anti-Human/Mouse IL-22
Functional Grade Purified

REF

Catalog Number: 16-7222

Clone: IL22JOP

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2a, kappa

Handling Conditions: Use in sterile environment.

Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.



Formulation: aqueous buffer, no sodium azide

Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

The monoclonal antibody IL22JOP reacts with and inhibits the bioactivity of human and mouse IL-22. IL-22 is a 20 kDa member of the IL-10 cytokine family that is secreted primarily by Th17 cells, NK cells, and other T cells. Compared to IL-6 or TGF beta, IL-23 can induce greater levels of IL-22 in in vitro-differentiated Th17 cells. This observation suggests that IL-22 may be secreted by more fully differentiated Th17 cells in vivo. Recently, it was demonstrated that IL-22 could protect hosts from bacterial infection of the lungs and gut. Moreover, it has been reported that anti-CD3/CD28-induced production of IL-22 by PBMCs was elevated significantly in asthma patients compared to control patients. Flow cytometric analysis also showed that the frequencies of IL-17+IL-22+ CD4 T cells were increased in PBMCs from patients with ankylosing spondylitis and rheumatoid arthritis.

Applications Reported

The monoclonal antibody IL22JOP reacts with and inhibits the bioactivity of human and mouse IL-22.

Applications Tested

The ND₅₀ of IL22JOP, as determined by the inhibition of IL-10 induction in COLO205 cells by IL-22, is 10-40 ng/ml, in the presence of 0.2 ng/ml recombinant human or mouse IL-22. Neutralization dose will vary depending on assay method, cytokine concentration, and cell type.

References

Hughes T, Becknell B, McClory S, Briercheck E, Freud AG, Zhang X, Mao H, Nuovo G, Yu J, Caligiuri MA. Stage three immature human natural killer cells found in secondary lymphoid tissue constitutively and selectively express the TH17 cytokine interleukin-22. *Blood*. 2009 May;87(5):451-4.

Harper EG, Guo C, Rizzo H, Lillis JV, Kurtz SE, Skorcheva I, Purdy D, Fitch E, Iordanov M, Blauvelt A. Th17 Cytokines Stimulate CCL20 Expression in Keratinocytes In Vitro and In Vivo: Implications for Psoriasis Pathogenesis.

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J Invest Dermatol. 2009 Sep;129(9):2175-83.

Bettelli E, Korn T, Oukka M, Kuchroo VK. Induction and effector functions of T(H)17 cells. Nature. 2008 Jun 19;453(7198):1051-7.

Aujla SJ, Kolls JK. IL-22: A critical mediator in mucosal host defense. J Mol Med. 2009 May;87(5):451-4.

Related Products

12-7221 Anti-Mouse IL-22 PE (1H8PWSR)

12-7229 Anti-Human IL-22 PE (22URTI)

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)

46-7221 Anti-Mouse IL-22 PerCP-eFluor® 710 (1H8PWSR)

46-7229 Anti-Human IL-22 PerCP-eFluor® 710 (22URTI)

88-7422 Mouse IL-22 ELISA Ready-SET-Go!®

88-7522 Human IL-22 ELISA Ready-SET-Go!®