

IL-22 Monoclonal Antibody (IL22JOP), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rhesus monkey
Published Species	Non-human primate, Mouse, Human, Rhesus monkey
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IL22JOP
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_2016695

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	-	12 Publications
ELISA (ELISA)	-	2 Publications
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	5 Publications

Product Specific Information

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.

IL22JOP is published to recognize rhesus IL-22.

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.

Storage and handling: Use in a sterile environment.

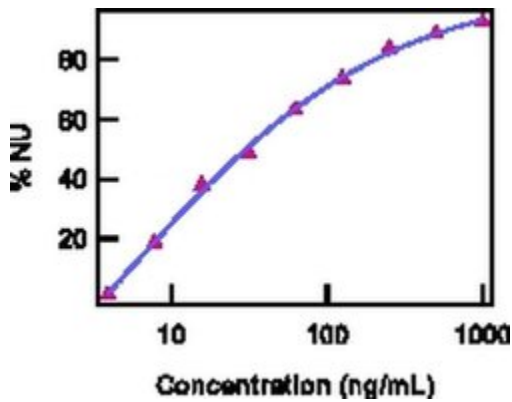
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For IL-22 Monoclonal Antibody (IL22JOP), Functional Grade, eBioscience™



IL-22 Antibody (16-7222-82) in FN

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

[View more figures on thermofisher.com](https://www.thermofisher.com)

22 References

Immunohistochemistry (1)

Proceedings of the National Academy of Sciences of the United States of America

Mechanisms of NDV-3 vaccine efficacy in MRSA skin versus invasive infection.

"Published figure using IL-22 monoclonal antibody (Product # 16-7222-82) in Immunohistochemistry"

Authors: Yeaman MR,Filler SG,Chaili S,Barr K,Wang H,Kupferwasser D,Hennessey JP,Fu Y,Schmidt CS,Edwards JE, Xiong YQ,Ibrahim AS

Species
Mouse

Dilution
Not Cited

Year
2014

Flow Cytometry (12)

Frontiers in immunology

ATF3 Sustains IL-22-Induced STAT3 Phosphorylation to Maintain Mucosal Immunity Through Inhibiting Phosphatases.

"Published figure using IL-22 monoclonal antibody (Product # 16-7222-82) in Flow Cytometry"

Authors: Glal D,Sudhakar JN,Lu HH,Liu MC,Chiang HY,Liu YC,Cheng CF,Shui JW

Species
Not Applicable

Dilution
Not Cited

Year
2019

Immunity

The Intestine Harbors Functionally Distinct Homeostatic Tissue-Resident and Inflammatory Th17 Cells.

"Published figure using IL-22 monoclonal antibody (Product # 16-7222-82) in Flow Cytometry"

Authors: Omenetti S,Bussi C,Metidji A,Iseppon A,Lee S,Tolaini M,Li Y,Kelly G,Chakravarty P,Shoae S,Gutierrez MG, Stockinger B

Species
Not Applicable

Dilution
Not Cited

Year
2019

[View more Flow references on thermofisher.com](#)

ELISA (2)

Journal of immunology (Baltimore, Md. : 1950)

Innate Recognition of the Microbiota by TLR1 Promotes Epithelial Homeostasis and Prevents Chronic Inflammation.

"Published figure using IL-22 monoclonal antibody (Product # 16-7222-82) in ELISA"

Authors: Kamdar K,Johnson AMF,Chac D,Myers K,Kulur V,Truevillian K,DePaolo RW

Species
Not Applicable

Dilution
Not Cited

Year
2018

More applications with references on thermofisher.com

Neu (2) **FN (5)**

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