

IFN gamma Monoclonal Antibody (MD-1), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Human, Non-human primate
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MD-1
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_469249

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	-	2 Publications
ELISA (ELISA)	1-4 µg/mL	-
Neutralization (Neu)	-	2 Publications
Functional Assay (Functional)	Assay-Dependent	1 Publication
In vitro Assay (IV)	-	1 Publication

Product Specific Information

Description: The MD-1 antibody reacts with human, rhesus, cynomolgus and baboon interferon-gamma (IFN gamma), the signature Th1 cytokine, which is produced mainly by activated T cells, NK cells and B cells. IFN gamma is a dimeric protein. IFN gamma has antiviral and antiparasitic activities and also inhibits the proliferation of normal and transformed cells. ^{^M}

Applications Reported: The MD-1 antibody has been reported for use in intracellular staining and flow cytometric analysis, cytokine neutralization, immunohistochemical staining, ELISA Capture, and ELISPOT Capture. Fluorochrome conjugated 4S.B3 antibody is recommended for use in intracellular staining and flow cytometry. ^{^M}

Applications Tested: The MD-1 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human interferon gamma (IFN gamma) in combination with the biotinylated 4S.B3 (13-7319) antibody for detection and recombinant human IFN gamma (39-8319) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/mL - 8 pg/mL should be included in each ELISA plate. ^{^M}

The FG Purified format of the MD-1 antibody has been tested as the capture antibody in an ELISPOT assay (in conjunction

with the biotinylated 4S.B3 antibody) and for neutralization of IFN gamma biological activity. A suitable range of concentrations of this antibody for ELISPOT capture is 1-4 µg/mL.^M

^M

For in vitro neutralization, the MD-1 antibody at 30 µg/mL has been found to neutralize by 50% the effect of 1 ng/mL human IFN gamma. A more potent neutralizing antibody is clone NIB42.^M

^M

Storage and handling: Use in a sterile environment.^M

^M

Filtration: 0.2 µm post-manufacturing filtered.^M

^M

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

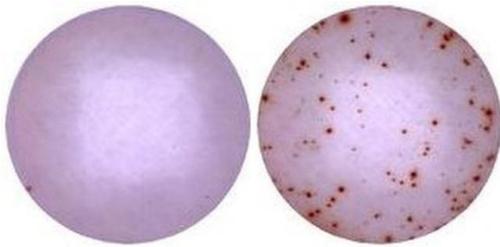
^M

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

^M

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

Product Images For IFN gamma Monoclonal Antibody (MD-1), Functional Grade, eBioscience™



IFN gamma Antibody (16-7317-85) in Functional

Normal human peripheral blood cells were activated with PMA/Ionomycin in human IFN gamma ELISPOT assay. Control well is medium alone.

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

6 References

Flow Cytometry (2)

Blood

Phosphoantigen-activated V gamma 2V delta 2 T cells antagonize IL-2-induced CD4+CD25+Foxp3+ T regulatory cells in mycobacterial infection.

Authors: Gong G,Shao L,Wang Y,Chen CY,Huang D,Yao S,Zhan X,Sicard H,Wang R,Chen ZW

Year
2009

The Journal of experimental medicine

Immediate cytotoxicity but not degranulation distinguishes effector and memory subsets of CD8+ T cells.

"Published figure using IFN gamma monoclonal antibody (Product # 16-7317-85) in Flow Cytometry"

Authors: Wolint P,Betts MR,Koup RA,Oxenius A

Year
2004

Neutralization (2)

Nature communications

MAIT cells are activated during human viral infections.

"Published figure using IFN gamma monoclonal antibody (Product # 16-7317-85) in Neutralization"

Authors: van Wilgenburg B,Scherwitzl I,Hutchinson EC,Leng T,Kurioka A,Kulicke C,de Lara C,Cole S,Vasanawathana S,Limpitikul W,Malasi P,Young D,Denney L,Moore MD,Fabris P,Giordani MT,Oo YH,Laidlaw SM,Dustin LB,Ho LP,Thompson FM,Ramamurthy N,Mongkolsapaya J,Willberg CB,Screaton GR,Klenerman P

Year
2016

Blood

Phosphoantigen-activated V gamma 2V delta 2 T cells antagonize IL-2-induced CD4+CD25+Foxp3+ T regulatory cells in mycobacterial infection.

Authors: Gong G,Shao L,Wang Y,Chen CY,Huang D,Yao S,Zhan X,Sicard H,Wang R,Chen ZW

Year
2009

More applications with references on thermofisher.com

Functional (1)

IV (1)

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