

# 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.™

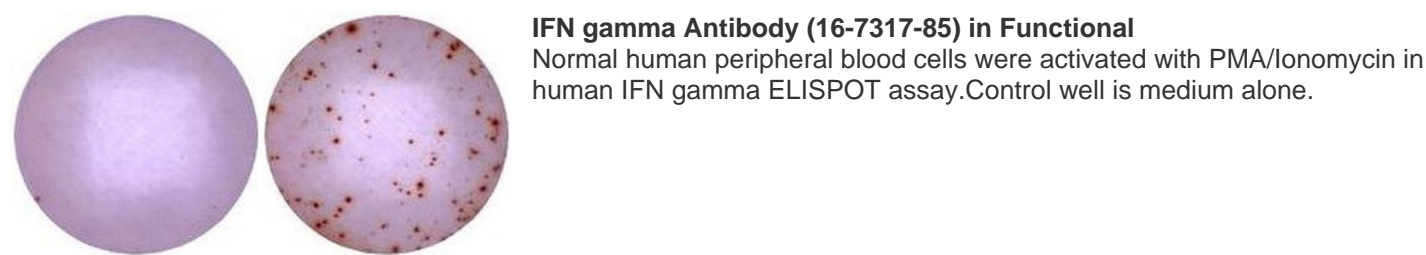
**Applications Reported:** The MD-1 antibody has been reported for use in intracellular staining and flow cytometric analysis, cytokine neutralization, immunohistochemical staining, ELISA Capture, and ELISPOT Capture. Fluorochrome conjugated 4S.B3 antibody is recommended for use in intracellular staining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

**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.™

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™**



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Flow Cytometry (2)

|  |                      |
|--|----------------------|
| <p>Blood</p> <p><b>Phosphoantigen-activated V gamma 2V delta 2 T cells antagonize IL-2-induced CD4+CD25+Foxp3+ T regulatory cells in mycobacterial infection.</b></p> <p>Authors: Gong G,Shao L,Wang Y,Chen CY,Huang D,Yao S,Zhan X,Sicard H,Wang R,Chen ZW</p>  | <p>Year<br/>2009</p> |
| <p>The Journal of experimental medicine</p> <p><b>Immediate cytotoxicity but not degranulation distinguishes effector and memory subsets of CD8+ T cells.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 16-7317-85) in Flow Cytometry"</p> <p>Authors: Wolint P,Betts MR,Koup RA,Oxenius A</p> | <p>Year<br/>2004</p> |

Neutralization (2)

|   |                      |
|---|----------------------|
| <p>Nature communications</p> <p><b>MAIT cells are activated during human viral infections.</b></p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 16-7317-85) in Neutralization"</p> <p>Authors: van Wilgenburg B,Scherwitzl I,Hutchinson EC,Leng T,Kurioka A,Kulicke C,de Lara C,Cole S,Vasanawathana S,Limpitikul W,Malasit 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</p> | <p>Year<br/>2016</p> |
| <p>Blood</p> <p><b>Phosphoantigen-activated V gamma 2V delta 2 T cells antagonize IL-2-induced CD4+CD25+Foxp3+ T regulatory cells in mycobacterial infection.</b></p> <p>Authors: Gong G,Shao L,Wang Y,Chen CY,Huang D,Yao S,Zhan X,Sicard H,Wang R,Chen ZW</p>   | <p>Year<br/>2009</p> |

More applications with references on thermofisher.com

- Functional (1)
- IV (1)

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