

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

Product Details	
Size	500 µg
Species Reactivity	Human, Non-human primate
Published Species	Cynomolgus monkey, Non-human primate, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	MD-1
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468474

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	Assay-Dependent	1 Publication
ELISA (ELISA)	-	2 Publications
Neutralization (Neu)	-	4 Publications
Functional Assay (FN)	-	4 Publications
T-Cell Activation (TCA)	-	1 Publication
Immunostaining (IS)	1-4 µg/mL	-

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 flow cytometric analysis, cytokine neutralization, immunohistochemical staining, ELISA, and ELISPOT. (Fluorochrome conjugated MD-1 is recommended for use in intracellular flow cytometry.) (Please use Functional Grade purified MD-1, cat. 16-7317, in functional assays.).

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.

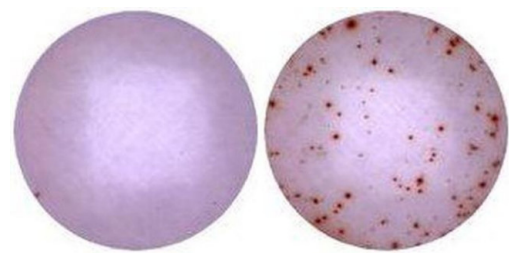
For in vitro neutralization, the MD-1 antibody at 30 µg/mL has been found to neutralize by 50% the effect of 1 ng/mL human IFN gamma. A more potent neutralizing antibody is clone NIB42.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

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



IFN gamma Antibody (14-7317-85) in IS
Human PBMCs were activated with PMA/Ionomycin in Human IFN gamma ELISPOT assay. Control well is medium alone.

Immunocytochemistry (1)

Frontiers in immunology	Year 2019
Ionizing Radiation Induces Morphological Changes and Immunological Modulation of Jurkat Cells.	Species Human
"14-7317-85 was used in Immunocytochemistry to reveal that ionizing radiation impacts on immune activation and functional properties of T-lymphocytes that may have implications in both toxic effects and treatment response in cancer patients."	Dilution 1:2500
Authors: Voos P,Fuck S,Weipert F,Babel L,Tandl D,Meckel T,HehlGans S,Fournier C,Moroni A,Rödel F,Thiel G	

Flow Cytometry (1)

Blood	Year 2009
Phosphoantigen-activated V gamma 2V delta 2 T cells antagonize IL-2-induced CD4+CD25+Foxp3+ T regulatory cells in mycobacterial infection.	
"Published figure using IFN gamma monoclonal antibody (Product # 14-7317-85) in Flow Cytometry"	
Authors: Gong G,Shao L,Wang Y,Chen CY,Huang D,Yao S,Zhan X,Sicard H,Wang R,Chen ZW	

ELISA (2)

The Journal of clinical investigation	Year 2013
Protein microarray analysis reveals BAFF-binding autoantibodies in systemic lupus erythematosus.	Species Human
"14-7317 was used in an ELISA assay to study how serum factor protein microarrays facilitate the detection of auto-antibody reactivity to serum factors in human samples."	
Authors: Price JV,Haddon DJ,Kemmer D,Delepine G,Mandelbaum G,Jarrell JA,Gupta R,Balboni I,Chakravarty EF,Sokolove J,Shum AK,Anderson MS,Cheng MH,Robinson WH,Browne SK,Holland SM,Baechler EC,Utz PJ	

PloS one	Year 2012
Memory immune responses against pandemic (H1N1) 2009 influenza virus induced by a whole particle vaccine in cynomolgus monkeys carrying Mafa-A1*052:02.	Species Cynomolgus monkey
"14-7317 was used in an ELISA assay to examine the effectiveness of a vaccine derived from a virus library for pandemic virus infection in immunologically naïve macaques."	
Authors: Arikata M,Itoh Y,Okamatsu M,Maeda T,Shiina T,Tanaka K,Suzuki S,Nakayama M,Sakoda Y,Ishigaki H,Takada A,Ishida H,Soda K,Pham VL,Tsuchiya H,Nakamura S,Torii R,Shimizu T,Inoko H,Ohkubo I,Kida H,Ogasawara K	

More applications with references on thermofisher.cn

- Neu (4)
- FN (4)
- TCA (1)

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