

# IFN gamma Monoclonal Antibody (XMG1.2), Biotin

## Product Details

|                    |                             |
|--------------------|-----------------------------|
| Size               | 250 µg                      |
| Species Reactivity | Human, Mouse                |
| Published Species  | Human, Mouse                |
| Host/Isotype       | Rat / IgG1                  |
| Class              | Monoclonal                  |
| Type               | Antibody                    |
| Clone              | XMG1.2                      |
| Conjugate          | Biotin                      |
| Immunogen          | Recombinant mouse IFN gamma |
| Form               | Liquid                      |
| Concentration      | 0.5 mg/mL                   |
| Purification       | Protein A                   |
| Storage buffer     | PBS with 4% BSA             |
| Contains           | proprietary Preservative    |
| Storage conditions | -20°C                       |
| RRID               | AB_223608                   |

| Applications                              | Tested Dilution | Publications    |
|---|-----------------|-----------------|
| Western Blot (WB)                         | 2 µg/mL         | 1 Publication   |
| Immunohistochemistry (IHC)                | -               | 3 Publications  |
| Immunohistochemistry (Paraffin) (IHC (P)) | -               | 1 Publication   |
| Immunohistochemistry (Frozen) (IHC (F))   | Assay-dependent | -               |
| Flow Cytometry (Flow)                     | -               | 3 Publications  |
| ELISA (ELISA)                             | 0.125-1.0 µg/mL | 58 Publications |
| Neutralization (Neu)                      | Assay-dependent | 10 Publications |

## Product Specific Information

MM700B targets IFN gamma in ELISA, IHC-F, Neutralization and WB applications and shows reactivity with mouse and human samples.

The MM700B immunogen is recombinant mouse IFN gamma.

MM700B detects IFN gamma which has a predicted molecular weight of approximately 16 kDa.

The MM700B mouse GMCSF antibody (biotinylated conjugate of clone XMG1.2) has successfully been paired as the detection antibody in a sandwich ELISA with capture antibody MM700 (same clone). Typical dilutions for sandwich ELISA include 1 µg /mL for coating and 0.125 - 0.25 µg/mL for detection.

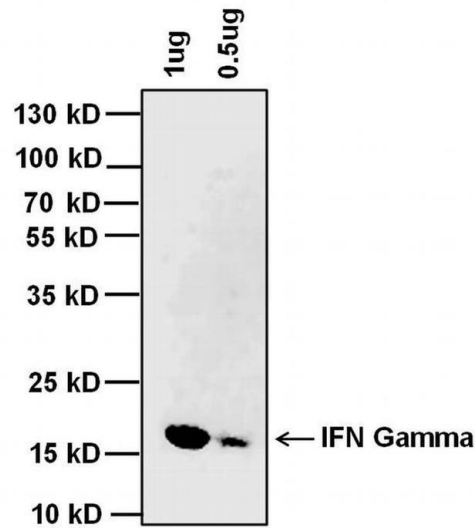
Biotinylated antibody MM700B (clone XMG1.2) and antibody MM700 (same clone) have successfully been used in combination with recombinant mouse IFNγ protein SMIFNγ in ELISA applications.

This antibody is produced by injecting Rat IgG secreting hybridoma cells into the peritoneum of mice. The resulting ascites is collected from the mice and the antibody is purified.

Product Images For IFN gamma Monoclonal Antibody (XMG1.2), Biotin

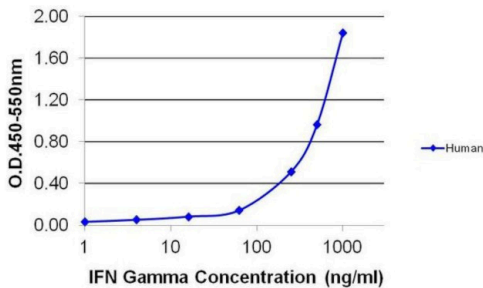
IFN gamma Antibody (MM700B) in WB

Western blot analysis of IFN Gamma was performed by loading indicated amount of Human IFN Gamma recombinant protein in reducing sample buffer and 8 µL PageRuler Plus Prestained Protein Ladder (Product # 26619) per well onto a 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane using the G2 Fast Blotter (Product # 62288) and blocked with 5% Milk /TBST for at least 1 hour at room temperature. IFN Gamma was detected at ~16 kDa using a IFN Gamma rat monoclonal biotin conjugate antibody MM700B at a concentration of 2 µg/mL in blocking buffer overnight at 4°C on a rocking platform, followed by a Streptavidin-HRP conjugate (Product # 21126) at a dilution of 1:2,000 for at least 1 hour at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078) and the myECL Imager (Product # 62236).



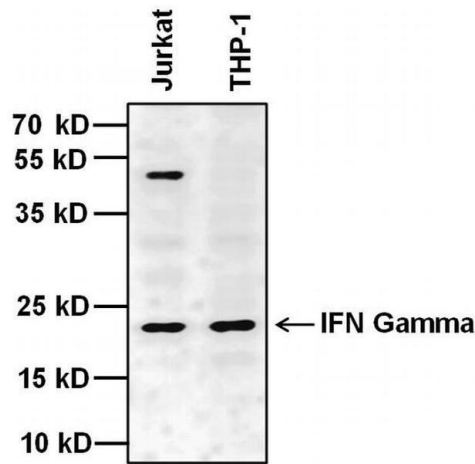
IFN gamma Antibody (MM700B) in ELISA

Sandwich ELISA of IFN gamma was performed by coating wells of a 96-well plate with 100 µL of an IFN gamma mouse monoclonal antibody (Product # MM700) diluted to a concentration of 1 µg/mL in carbonate/bicarbonate buffer (Product # 28382) overnight at 4°C. Wells were blocked with 200 µL of StartingBlock T20 (TBS) Blocking Buffer (Product # 28382) for 2 hours, and 100 µL of recombinant mouse IFN gamma protein ranging from 16-3000 pg/mL were incubated for 1 hour at room temperature. The plate was washed with 1X PBS (Product # 28348), and 100 µL per well of an IFN gamma Biotin conjugated mouse monoclonal antibody (Product # MM700B) diluted to a concentration of 1 µg/mL was added to each well for 1 hour at room temperature. The plate was washed, and 100 µL per well of a Streptavidin-HRP (Product # 21126) was incubated for 30 minutes. Detection was performed using 1-Step Ultra TMB Substrate (Product # 34028) for 15-30 minutes, followed by Stop Solution (Product # N600). Absorbances were read on a spectrophotometer at 450-550 nm.



IFN gamma Antibody (MM700B) in WB

Western blot analysis of IFN Gamma was performed by loading 20 µg of indicated whole cell lysates in reducing sample buffer and 8 µL PageRuler Plus Prestained Protein Ladder (Product # 26619) per well onto a 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane using the G2 Fast Blotter (Product # 62288) and blocked with 5% Milk/TBST for at least 1 hour at room temperature. IFN Gamma was detected at ~20 kDa using a IFN Gamma rat monoclonal biotin conjugate antibody MM700B at a concentration of 2 µg/mL in blocking buffer overnight at 4°C on a rocking platform, followed by a Streptavidin-HRP conjugate (Product # 21126) at a dilution of 1:2,000 for at least 1 hour at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078) and the myECL Imager (Product # 62236).



76 References

Western Blot (1)

|  |              |
|--|--------------|
| International journal of molecular sciences  | Year<br>2022 |
| <b>Modulation of Gut Microbiota Combined with Upregulation of Intestinal Tight Junction Explains Anti-Inflammatory Effect of Corylin on Colitis-Associated Cancer in Mice.</b> |              |
| "Published figure using IFN gamma monoclonal antibody (Product # MM700B) in Western Blot"  |              |
| Authors: Chang ZY,Liu HM,Leu YL,Hsu CH,Lee TY  |              |

Immunohistochemistry (3)

|   |                  |
|---|------------------|
| Molecular carcinogenesis  | Year<br>2013     |
| <b>Imiquimod attenuates the growth of UVB-induced SCC in mice through Th1/Th17 cells.</b>   | Species<br>Mouse |
| "MM700B was used in immunohistochemistry to study the role of Th1/Th17 cells in the attenuation of the growth of UVB-induced squamous cell carcinomas by imiquimod" |                  |
| Authors: Yokogawa M,Takaishi M,Nakajima K,Kamijima R,Digiovanni J,Sano S  |                  |

|  |                  |
|--|------------------|
| Journal of immunology (Baltimore, Md. : 1950)  | Year<br>1998     |
| <b>Cardiac allografts from IL-4 knockout recipients: assessment of transplant arteriosclerosis and peripheral tolerance.</b>         | Species<br>Mouse |
| "MM700B was used in immunohistochemistry to investigate the role of interleukin 4 in the development of transplant arteriosclerosis" |                  |
| Authors: Mottram PL,Räisänen-Sokolowski A,Glysing-Jensen T,Stein-Oakley AN,Russell ME  |                  |

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (1)

|   |                  |
|---|------------------|
| Frontiers in neurology  | Year<br>2022     |
| <b>Up-Regulated Expression of Interferon-Gamma, Interleukin-6 and Tumor Necrosis Factor-Alpha in the Endolymphatic Sac of Meniere's Disease Suggesting the Local Inflammatory Response Underlies the Mechanism of This Disease.</b> | Species<br>Human |
| "Published figure using IFN gamma monoclonal antibody (Product # MM700B) in Immunohistochemistry (Paraffin)"  |                  |
| Authors: Huang C,Wang Q,Pan X,Li W,Liu W,Jiang W,Huang L,Peng A,Zhang Z   |                  |

More applications with references on thermofisher.com

- Flow (3)
- ELISA (58)
- Neu (10)

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