

Mouse IFN γ Antibody

Purified *in vivo* PLATINUM™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: I-1209

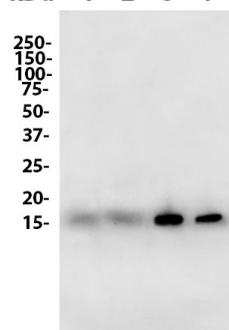
Clone: XMG1.2

RRID: AB_2892926

Isotype: Rat IgG1 κ

Storage: Sterile 2° to 8°C

kDa 1 2 3 4



Lane 1: 20 ug reduced
A-20 whole cell lysate
(Prod. No. A232)

Lane 2: 10 ug reduced
A-20 whole cell lysate
(Prod. No. A2932)

Lane 3: 1 ug reduced
recombinant mouse
IFN- γ (Prod. No. I-669)

Lane 4: 0.5 ug reduced
recombinant mouse
IFN- γ (Prod. No. I-669)

Primary: anti-mouse IFN- γ antibody (XMG1.2) at 6
ug/ml (Prod. No. I-1119)

Secondary: HRP labeled goat anti-rat at 1:1000
dilution (Prod. No. R1215)

Predicted band size: 14-20 kDa

Product Description

Specificity:

Rat Anti-Mouse Interferon Gamma (IFN- γ) (Clone XMG1.2) recognizes an epitope on Mouse IFN- γ . This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Background:

Interferon-gamma (IFN- γ) or type II interferon is a dimerized soluble cytokine that is the only member of the type II class of interferons.¹ It is a cytokine critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. IFN γ is produced predominantly by natural killer (NK) and natural killer T (NKT) cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte (CTL) effector T cells once antigen-specific immunity develops.² IFN- γ has antiviral, immunoregulatory, and anti-tumour properties.³

Known Reactivity Species:

Mouse

Format:

Purified *in vivo* PLATINUM™ Functional Grade

Immunogen:

Purified Recombinant Mouse IFN- γ (>98%)

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

Purity

≥98% monomer by analytical SEC, >95% by SDS Page

Endotoxin

≤ 0.5 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2° to 8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Pathogen Testing

To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's Purified Functional PLATINUM™ antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

ELISA Cap XMG1.2 antibody is useful as a detection antibody for a sandwich ELISA with a concentration range of 0.5-2.0 µg/ml as recommended.

WB The suggested concentration for this XMG1.2 antibody for use in western blotting is 1-10 µg/ml.

Other Applications Reported in Literature:

ICFC
ELISPOT Cap
ELISPOT Det
CyTOF®
N

Country of Origin

USA

References

- 1) Goeddel DV *et al.* (1982) *Nature* 298: 859
- 2) Wilson CB *et al.* (2007) *Adv. Immunol.* 96: 41
- 3) Hume DA *et al.* (2004) *J Leukoc Biol.* 75: 163
- 4) Teijaro *et al.* (2020) *bioRxiv* 22: 24
- 5) Hawman DW, *et al.* (2021) *Microorganisms* 9(2):279 [Journal Link](#)