

Anti-Mouse IFN γ

Purified in vivo GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: I-1130

Clone: R4-6A2

RRID: AB_2830468

Isotype: Rat IgG1 κ

Storage: Sterile 2° to 8°C

Product Description

Specificity:

Rat Anti-Mouse Interferon Gamma (IFN- γ) (Clone R4-6A2) 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. IFNG 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 GOLD™ Functional Grade

Immunogen:

Purified Mouse IFN- γ

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.

Purity

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

Endotoxin

<1.0 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.

Applications

Applications and Recommended Usage (Quality Tested by Leinco):

ELISA Cap R4-6A2 antibody is useful as a detection antibody for a sandwich ELISA with a concentration range of 0.5-2.0 µg/ml as recommended.

Other Applications Reported in Literature:

ELISPOT Cap

ELISPOT Det

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