

Human IFN- γ Antibody

Purified No Carrier Protein

Monoclonal Antibody

Product Information

Product No.: I-646

Clone: 25718

RRID: AB_2830768v

Isotype: Mouse IgG2a

Storage: -20° to -80°C

Product Description

Specificity:

Mouse Anti-Human Interferon Gamma (IFN- γ) (Clone 25718) recognizes an epitope on Human 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:

Human

Format:

Purified No Carrier Protein

Immunogen:

Purified Recombinant Human IFN- γ (Accession # AAP20098.1)

Formulation

This monoclonal antibody has been 0.2 μ m filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.4 containing 5.0% w/v trehalose with no calcium, magnesium or preservatives present.

Endotoxin

<0.1 EU/ μ g as determined by the LAL method

Storage and Stability

The lyophilized antibody can be stored desiccated at -20°C to -70°C for up to twelve months. The reconstituted antibody can be stored for at least four weeks at 2-8°C. For long-term storage of the reconstituted antibody, aseptically aliquot into working volumes and store at -20°C to -70°C in a manual defrost freezer.

Avoid repeated freeze thaw cycles. No detectable loss of activity was observed after six months.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

ICFC Intracellular Staining by Flow Cytometry suitable for use at concentration of 0.25 μ g/106 cells

Other Applications Reported in Literature:

This antibody is useful for neutralization of Human IFN- γ bioactivity. The antibody dose required to neutralize 50% (ND50) of the biological activity of Human IFN- γ (at 50 ng/ml) is 0.02 - 0.06 μ g/ml.

ICC Immunocytochemistry suitable for use at concentration of 8-25 μ g/mL.

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