IFNG
Mouse Anti-Rat IFN-gamma Clone DB-1 mAb LE/NA

Catalog No.	CSI14665 CSI14666	**Quantity:**	50 µg 0.5 mg

Alternate Names: Interferon-γ, Immune interferon, Type II interferon, T cell interferon, Macrophage-activating factor (MAF), IFN-g, IFN-gamma

Description: Interferon-γ is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells. Originally characterized based on anti-viral activities, IFN-γ also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN-γ can upregulate MHC class I and II antigen expression by antigen-presenting cells. The DB-1 antibody reacts with rat and mouse interferon-gamma (IFN-γ). The DB-1 antibody can neutralize the bioactivity of natural or recombinant IFN-γ. The DB-1 antibody has been well characterized for ELISA, intracellular staining, Western blotting, IHC, and neutralization *(in vitro* and *in vivo)*.

Concentration: 1.0 mg/ml

Gene ID: 25712

Structure: Cytokine; dimer; 40-80 kD (Mammalian).

Regulation: Upregulated by IL-2, bFGF, EGF; downregulated by 1-α-25-Dihydroxy vitamin D3, dexamethasone.

Host: Mouse

Immunogen: Recombinant rat IFN-γ

Isotype: IgG1, κ

Clone: DB-1

Bioactivity: Antiviral/antiparasitic activities; inhibits proliferation; enhances MHC class I and II expression on APC

Formulation: Phosphate-buffered solution, pH 7.2, containing no preservative. 0.2 µm filter sterilized. Endotoxin level is < 0.1 EU/µg of the protein (< 0.01 ng/µg of the protein) as determined by the LAL test.

Purification: The LE/NA (Low Endotoxin, Azide-Free) antibody was Purified by affinity chromatography

Cellular Sources and Targets: Cellular Sources: CD8+ and CD4+ T cells, NK cells

Cellular Targets: T cells, B cells, macrophages, NK cells, endothelial cells, fibroblasts

Reactivity: Mouse, Rat

Applications: ELISA Capture - Quality tested
Neut, ICFC, IHC, WB

Recommended Usage: Each lot of this antibody is quality control tested by ELISA analysis. For ELISA capture applications, the suggested use of this reagent is 1-4 ug/ml. For use as an ELISPOT capture antibody, the range of 2-6 ug/ml is recommended.To obtain a linear standard curve, serial dilutions of IFN-γ recombinant protein ranging from 1000 to 8 pg/ml are recommended for each ELISA plate. The Purified DB-1 has been tested by blocking fluorochrome conjugated DB-1 for intracellular cytokine staining. In order to obtain

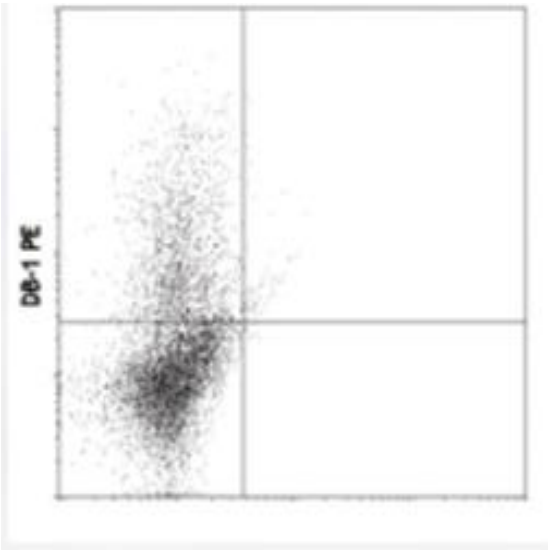
complete blocking results, a saturated amount of Purified antibody (≤ 5.0 ug/million cells) should be used for incubation with target cells, prior to staining with fluorochrome conjugated antibody. It is recommended that the reagent be titrated for optimal performance for each application.

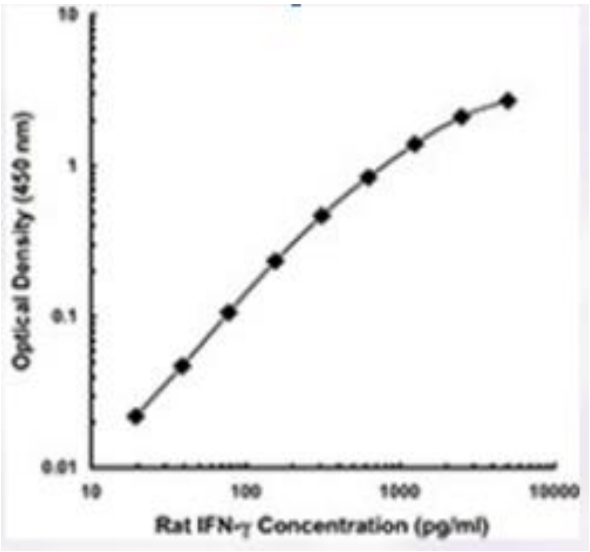
Storage & Stability: The antibody solution should be stored undiluted at 4 °C. This LE/NA solution contains no preservative; handle under aseptic conditions.

Application Notes: **ELISA Capture:** The Purified DB-1 antibody is useful as the capture antibody in a sandwich ELISA assay, when used in conjunction with the biotinylated poly5109 antibody as the detecting antibody and recombinant IFN-γ as the standard.
Flow Cytometry: The fluorochrome-labeled DB-1 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-γ-producing cells within mixed cell populations.
Neutralization: The LE/NA Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm sterile-filtered) is recommended for neutralization of rat IFN-γ bioactivity *in vivo* and *in vitro*.
Additional reported applications (for the relevant formats) include: Western blotting, and immunohistochemistry of paraformaldehyde-fixed, saponin-treated frozen tissue sections.

Receptors: IFN-γRα (CDw119) dimerized with IFN-γRβ (AF-1)

PMA/Ionomycin stimulated Lou rat splenocytes were stained with DB-1 PE.





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