

# Anti-human IFN- $\gamma$ -NL637

Catalog Number: NL285V

Lot Number: ABCR02

100 Tests in 50  $\mu$ L staining volume

20 Tests in 250  $\mu$ L staining volume

## Reagents Provided

**NorthernLights™ 637 (NL637)-conjugated mouse monoclonal anti-human IFN- $\gamma$ :** Supplied as a 10X solution of antibody in 0.5 mL PBS containing 0.09% sodium azide.

**Clone #:** 25723

**Isotype:** mouse IgG<sub>2b</sub>

## Storage

Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

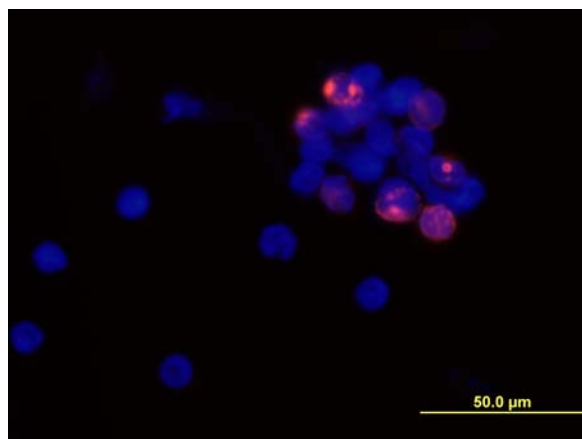
## Intended Use

Designed to visualize the expression of human IFN- $\gamma$  by fluorescence microscopy.

## Product Description

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E. coli*-derived, recombinant human interferon gamma (rhIFN- $\gamma$ ). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to fluorochrome NL637. The spectral characteristics of NL637 are provided, along with those of allophycocyanin (APC), Alexa Fluor® 647, and Indodicarbocyanine (Cy™5) for comparison.

Fluorochrome	Absorption Maximum (nm)	Emission Maximum (nm)
NL637	637	658
APC	645	660
Alexa Fluor 647	650	668
Cy5	650	670



**IFN- $\gamma$ -NL637**

Activated peripheral blood lymphocytes (PBLs) were stained with NL637-conjugated anti-human IFN- $\gamma$  Catalog # NL285V, red) and counterstained with DAPI (blue).

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

## Background Information

Mature IFN- $\gamma$  is a homodimeric cytokine produced primarily by T-lymphocytes and natural killer cells. IFN- $\gamma$  has many immunoregulatory and proinflammatory activities. It binds to IFN- $\gamma$  receptors present on virtually all cell types.

## Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using activated PBLs. Cells were fixed in PBS containing 4% paraformaldehyde, and blocked with PBS containing 10% normal donkey serum, 0.1% Triton® X-100, and 1% BSA. After blocking, cells were incubated with NL637-conjugated anti-human IFN- $\gamma$  antibody at a final concentration of 1X (1:10 dilution) in blocking buffer for either 3 hours at room temperature, or overnight at 4° C, in the dark. Between each step, cells were washed with PBS containing BSA. If a staining volume of 250  $\mu$ L is used, this kit can be used for 20 tests; 100 tests can be done in a staining volume of 50  $\mu$ L.

**Warning:** Contains sodium azide as a preservative - sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.

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