

Reagents Provided

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

Clone #: 25723

Isotype: mouse IgG_{2B}

Storage

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

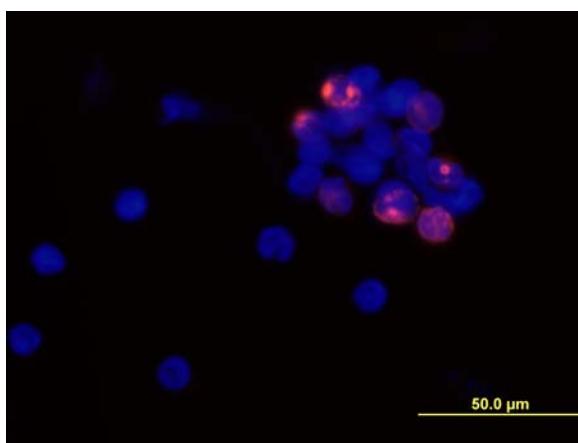
Intended Use

Designed to visualize the expression of human IFN- γ 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- γ). 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- γ -NL637

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

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Background Information

Mature IFN- γ is a homodimeric cytokine produced primarily by T-lymphocytes and natural killer cells. IFN- γ has many immunoregulatory and proinflammatory activities. It binds to IFN- γ 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- γ 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 μ L is used, this kit can be used for 20 tests; 100 tests can be done in a staining volume of 50 μ 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.