

Anti-human CXCL8/IL-8-NL637

Catalog Number: NL208V

Lot Number: AAZW01

100 Tests in 50 μ L staining volume

20 Tests in 250 μ L staining volume

Reagents Provided

NorthernLights™ 637 (NL637)-conjugated mouse monoclonal anti-human CXCL8/IL-8: Supplied as a 10X solution of antibody in 0.5 mL PBS containing 0.1% sodium azide.

Clone #: 6217

Isotype: mouse IgG₁

Storage

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

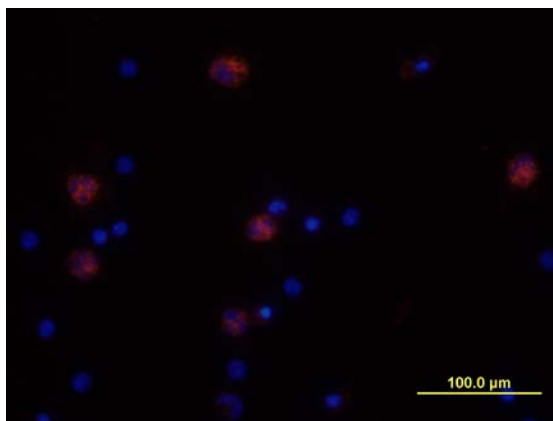
Intended Use

Designed to visualize the expression of human CXCL8/IL-8 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 CXCL8 (rhCXCL8; aa 28 - 99; Accession # P10145). 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 Indocarbocyanine (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



Human CXCL8/IL-8-NL637

LPS- and monensin-stimulated human peripheral blood mononuclear cells were stained with NL637-conjugated anti-human CXCL8/IL-8 (Catalog # NL208V, red) and counterstained with DAPI (blue).

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 Alexa Fluor is a registered trademark of Invitrogen, Inc.
 Cy is a trademark of GE Healthcare.
 Triton is a registered trademark of Union Carbide Corp.

Background Information

CXCL8, also known as IL-8, is a CXC chemokine that is a potent chemoattractant for neutrophils and has a wide range of other pro-inflammatory effects.

Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using LPS- and monensin-stimulated human peripheral blood mononuclear cells. 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 antibody at a final concentration of 1X (1:10 dilution) in blocking buffer for 3 hours 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.

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