

HLA-DR Monoclonal Antibody (LN3), PE-Cyanine5, eBioscience™

Product Details

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|-----------------------------|---|
| Size | 100 Tests |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Mouse / IgG2b, kappa |
| Recommended Isotype Control | Mouse IgG2b kappa Isotype Control (eBMG2b), PE-Cyanine5, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | LN3 |
| Conjugate | PE-Cyanine5 |
| Excitation/Emission Max | 568/666 nm |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_10609341 |

| Applications | Tested Dilution | Publications |
|-----------------------|---------------------|-----------------|
| Flow Cytometry (Flow) | 5 µL (0.03 µg)/test | 21 Publications |

Product Specific Information

Description: The LN3 mAb reacts with the human major histocompatibility complex (MHC) class II, HLA-DR. HLA-DR is expressed on the surface of human antigen presenting cells (APC) including B cells, monocytes, macrophages, DCs, and activated T cells. HLA-DR is a heterodimeric transmembrane protein composed of alpha and beta subunits and plays an important role in the presentation of peptides to CD4⁺ T lymphocytes.

Applications Reported: This LN3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This LN3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.03 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

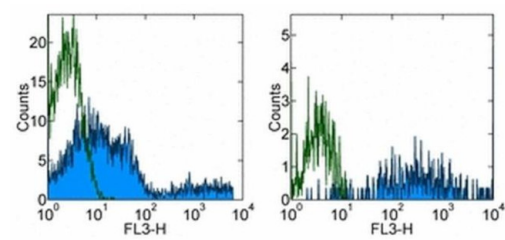
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

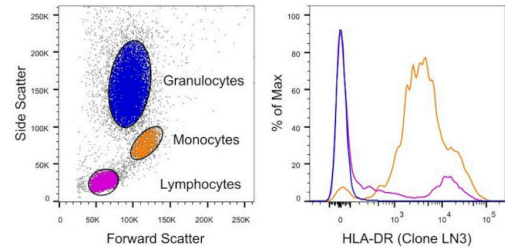
Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For HLA-DR Monoclonal Antibody (LN3), PE-Cyanine5, eBioscience™



HLA-DR Antibody (15-9956-42) in Flow
Staining of normal human peripheral blood cells with Mouse IgG2b Isotype Control PE-Cyanine5 (Product # 15-4732-42) (open histogram) or Anti-Human HLA-DR PE-Cyanine5 (filled histogram). Cells in the lymphocyte (left) and monocyte (right) gates were used for analysis.



HLA-DR Antibody (15-9956-42)
Staining of human peripheral blood cells. As expected based on known relative expression patterns, HLA-DR clone LN3 stains monocytes and a subset of lymphocytes (B cells) but does not stain granulocytes. Details: Normal human whole blood was surface stained with HLA-DR (clone LN3). After staining, red blood cells were lysed using 1-step Fix/Lyse Buffer. Cells in the lymphocyte (purple histogram), monocyte (orange histogram), or granulocyte (blue histogram) gates were used for analysis of HLA-DR staining. {RE}

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21 References

Flow Cytometry (21)

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|---|--|--------------|
| NPJ vaccines | | Year 2021 |
| New GMP manufacturing processes to obtain thermostable HIV-1 gp41 virosomes under solid forms for various mucosal vaccination routes. | | |
| "Published figure using HLA-DR monoclonal antibody (Product # 15-9956-42) in Flow Cytometry" | | |
| Authors: Amacker M,Smardon C,Mason L,Sorrell J,Jeffery K,Adler M,Bhoelan F,Belova O,Spengler M,Punnamoottil B, Schwaller M,Bonduelle O,Combadière B,Stegmann T,Naylor A,Johnson R,Wong D,Fleury S | | |
| | | |
| Cell reports. Medicine | | Year 2021 |
| Activated CD4⁺ T cells and CD14^{hi}CD16⁺ monocytes correlate with antibody response following influenza virus infection in humans. | | |
| "Published figure using HLA-DR monoclonal antibody (Product # 15-9956-42) in Flow Cytometry" | | |
| Authors: Wong SS,Oshansky CM,Guo XJ,Ralston J,Wood T,Reynolds GE,Seeds R,Jelley L,Waite B,Jeevan T,Zanin M, Widdowson MA,Huang QS,Thomas PG,Webby RJ | | |

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