

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

Product Details

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.

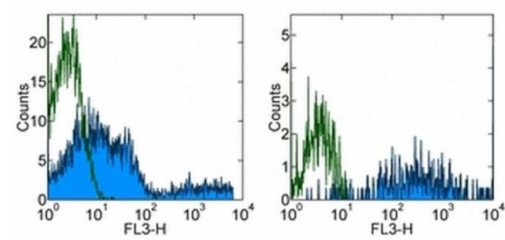
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

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.

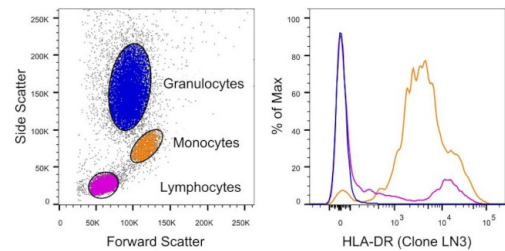
Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

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)

NPJ vaccines 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	Year 2021
Cell reports. Medicine 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	Year 2021

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