

HLA-DR Monoclonal Antibody (LN3), PE-eFluor 610, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE-eFluor 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LN3
Conjugate	PE-eFluor™ 610
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_2688182

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	4 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 (0.06 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PE-eFluor™ 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red™). Please make sure that your instrument is capable of detecting this fluorochrome.

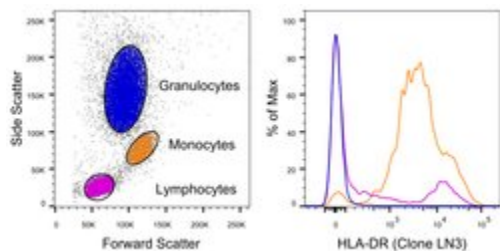
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

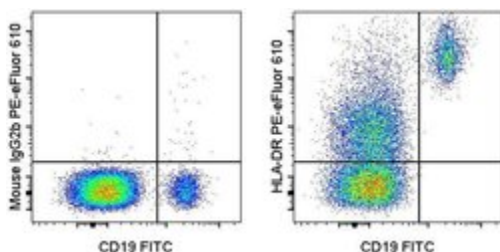
Advanced Verification Data



HLA-DR Antibody (61-9956-42)

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. Relative expression validation info.

Product Images For HLA-DR Monoclonal Antibody (LN3), PE-eFluor 610, eBioscience™



HLA-DR Antibody (61-9956-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (Product # 11-0199-42) and Mouse IgG2b K Isotype Control PE-eFluor® 610 (Product # 61-4732-82) (left) or Anti-Human HLA-DR PE-eFluor® 610 (right). Cells in the lymphocyte gate were used for analysis.

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Flow Cytometry (4)

Journal of translational medicine

Connecting METTL3 and intratumoural CD33⁺ MDSCs in predicting clinical outcome in cervical cancer.

"Published figure using HLA-DR monoclonal antibody (Product # 61-9956-42) in Flow Cytometry"

Authors: Ni HH,Zhang L,Huang H,Dai SQ,Li J

Species
Not Applicable

Dilution
Not Cited

Year
2020

PLoS pathogens

Gene expression network analyses during infection with virulent and avirulent Trypanosoma cruzi strains unveil a role for fibroblasts in neutrophil recruitment and activation.

"Published figure using HLA-DR monoclonal antibody (Product # 61-9956-42) in Flow Cytometry"

Authors: Oliveira AER,Pereira MCA,Belw AT,Ferreira LRP,Pereira LMN,Neves EGA,Nunes MDCP,Burleigh BA,Dutra WO,El-Sayed NM,Gazzinelli RT,Teixeira SMR

Species
Not Applicable

Dilution
Not Cited

Year
2020

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