

# 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   |
| Form                        | Liquid  |
| Concentration               | 5 µL/Test   |
| Purification                | Affinity chromatography   |
| Storage buffer              | PBS, pH 7.2, with 0.1% gelatin, 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 | 14 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<sup>+</sup> 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

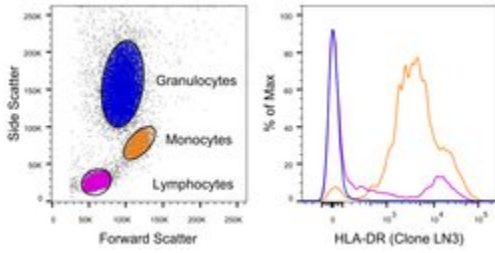
**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**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.

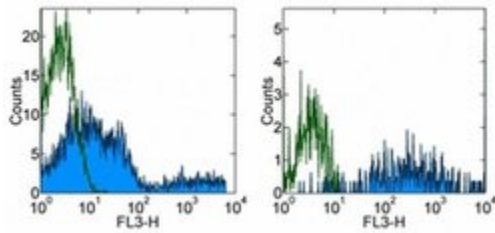
## ✓ Advanced Verification Data



### 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. Relative expression validation info.

## 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.

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## Flow Cytometry (14)

Journal of translational medicine

### Connecting METTL3 and intratumoural CD33<sup>+</sup> MDSCs in predicting clinical outcome in cervical cancer.

"Published figure using HLA-DR monoclonal antibody (Product # 15-9956-42) 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 # 15-9956-42) in Flow Cytometry"

Authors: Oliveira AER,Pereira MCA,Below 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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