# HLA-DR Monoclonal Antibody (LN3), PE-Cyanine7, eBioscience™

| Product Details | |
|---|---|
| Size | 25 Tests |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Mouse / IgG2b, kappa |
| Recommended Isotype Control | Mouse IgG2b kappa Isotype Control (eBMG2b), PE-Cyanine7, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | LN3 |
| Conjugate | PE-Cyanine7 |
| Excitation/Emission Max | 569/780 nm |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4°C, store in dark, DO NOT FREEZE! |
| RRID | AB_1582285 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Flow Cytometry (Flow) | 5 µL (0.015 µg)/test | 25 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 (0.015 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 10^5 to 10^8 cells/test.

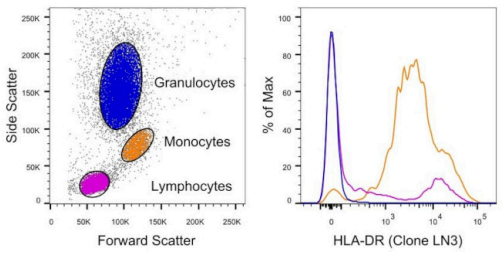
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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.

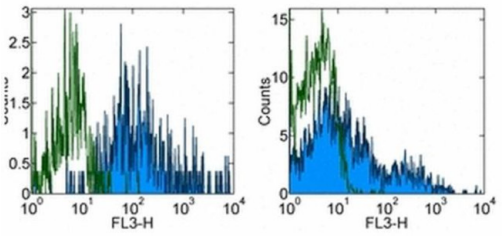
Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For HLA-DR Monoclonal Antibody (LN3), PE-Cyanine7, eBioscience™




**HLA-DR Antibody (25-9956-41)**
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}




**HLA-DR Antibody (25-9956-41) in Flow**
Staining of normal human peripheral blood cells with staining buffer (autofluorescence) (open histogram) or Anti-Human HLA-DR PE-Cyanine7 (filled histogram). Cells in the lymphocyte (right) or monocyte (left) gate were used for analysis.

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## 25 References

### Flow Cytometry (25)

**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 # 25-9956-42) 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 death & disease**

**GPR120 induces regulatory dendritic cells by inhibiting HK2-dependent glycolysis to alleviate fulminant hepatic failure.**

"25-9956-42 was used in Flow cytometry/Cell sorting to investigate whether GPR120, the receptor of polyunsaturated long chain fatty acids, is involved in fulminant hepatic failure (FHF)."

Authors: Yu H,Yang W,Huang J,Miao X,Wang B,Ren X,Gu Y,Wang Q,Ding X,Guo X,Qian F,Zhang Y,Xu H,Zheng L,Jin M

**Year**
2021

**Species**
Human

View more Flow references on thermofisher.cn

### More applications with references on thermofisher.cn