

HLA-DR Monoclonal Antibody (LN3), Super Bright 645, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Super Bright 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LN3
Conjugate	Super Bright™ 645
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_2688214

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	4 Publications

Product Specific Information

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: he LN3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.125 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.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

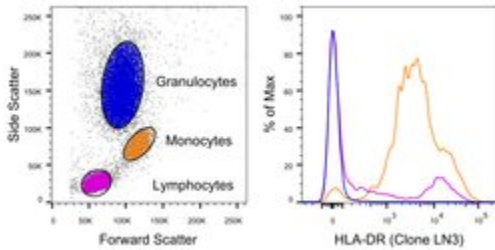
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L 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: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

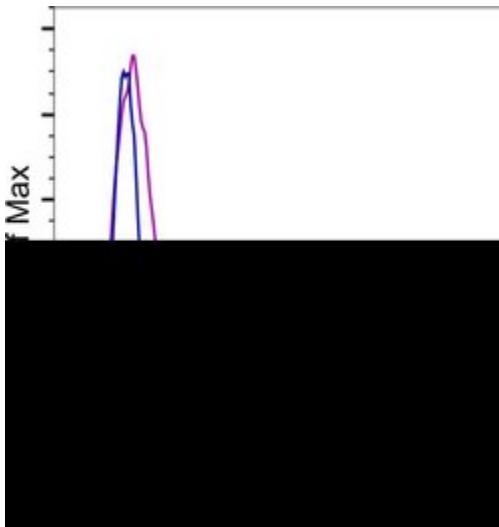
Advanced Verification Data



HLA-DR Antibody (64-9956-42)

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), Super Bright 645, eBioscience™



HLA-DR Antibody (64-9956-42) in Flow

Normal human peripheral blood cells were stained with HLA-DR Monoclonal Antibody Super Bright 645 (Product # 64-9956-42). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

5 References

Immunohistochemistry (1)

Cells

Aquaporin-4 Expression during Toxic and Autoimmune Demyelination.

"Published figure using HLA-DR monoclonal antibody (Product # 64-9956-42) in Immunohistochemistry"

Authors: Rohr SO, Greiner T, Joost S, Amor S, Valk PV, Schmitz C, Kipp M

Species

Not Applicable

Dilution

Not Cited

Year

2020

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 # 64-9956-42) 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 # 64-9956-42) in Flow Cytometry"

Authors: Oliveira AER, Pereira MCA, Belew 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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More applications with references on thermofisher.com

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