HLA-DR Monoclonal Antibody (LN3), PerCP-Cyanine5.5, eBioscience™

Product Details	
Size	100 Tests
Species	Human
Published Species	Human
Expression System	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LN3
Conjugate	PerCP-Cyanine5.5
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_10718537

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.015 µg)/Test	17 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.

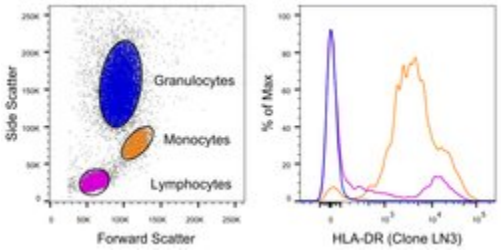
Applications Reported: This LN3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This LN3 antibody is offered in 2 formats: - µg size: has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: 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.

Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser.

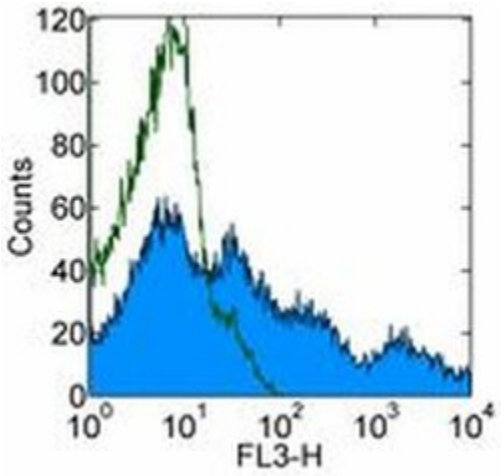
Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



HLA-DR Antibody (45-9956-42)
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), PerCP-Cyanine5.5, eBioscience™



HLA-DR Antibody (45-9956-42) in Flow
Staining of normal human peripheral blood cells with Mouse IgG2b K Isotype Control PerCP-Cyanine5.5 (Product # 45-4732-82) (open histogram) or Anti-Human HLA-DR PerCP-Cyanine5.5 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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17 References

Flow Cytometry (17)

Stem cell research and therapy

Glucose regulates tissue-specific chondro-osteogenic differentiation of human cartilage endplate stem cells via O-GlcNAcylation of Sox9 and Runx2.

"45-9956 was used in Flow cytometry/Cell sorting to show glucose can influence O-GlcNAcylation of Sox9 and Runx2 to regulate differentiation of human cartilage endplate stem cells."

Authors: Sun C,Lan W,Li B,Zuo R,Xing H,Liu M,Li J,Yao Y,Wu J,Tang Y,Liu H,Zhou Y

Species
Human

Dilution
Not Cited

Year
2019

Frontiers in immunology

Schistosoma mansoni rSm29 Antigen Induces a Regulatory Phenotype on Dendritic Cells and Lymphocytes From Patients With Cutaneous Leishmaniasis.

"45-9956 was used in Flow cytometry/Cell sorting to evaluate the potential of the S.mansoni Sm29 antigen to change aspects of profiles of monocyte derived dendritic cells and lymphocytes from subjects with cutaneous leishmaniasis."

Authors: Lopes DM,Oliveira SC,Page B,Carvalho LP,Carvalho EM,Cardoso LS

Species
Human

Dilution
Not Cited

Year
2019

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