

# HLA-DR Monoclonal Antibody (L243), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog, Cynomolgus monkey, Human, Non-human primate, Rhesus monkey
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	L243
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
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_1603291

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	18 Publications

## Product Specific Information

**Description:** The L243 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. The L243 antibody recognizes a different epitope than the LN3 monoclonal antibody, and these antibodies do not cross-block binding to each other's respective epitopes.

**Applications Reported:** This L243 antibody has been reported for use in flow cytometric analysis. .

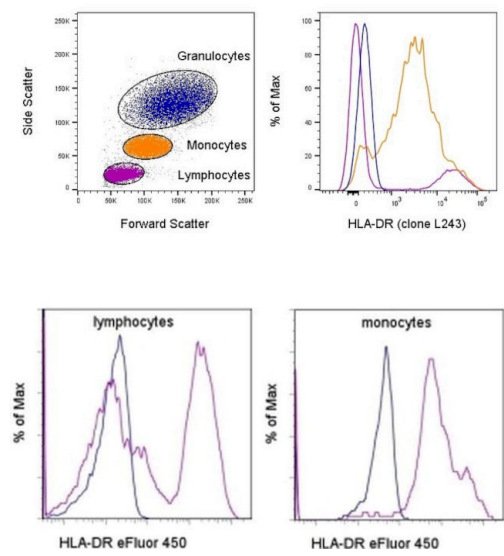
**Applications Tested:** This L243 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For HLA-DR Monoclonal Antibody (L243), eFluor™ 450, eBioscience™



**HLA-DR Antibody (48-9952-42)**  
Staining of human peripheral blood cells. As expected based on known relative expression patterns, HLA-DR clone L243 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 L243). 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. {RE}

**HLA-DR Antibody (48-9952-42) in Flow**  
Staining of normal human peripheral blood cells with Mouse IgG2a kappa Isotype Control eFluor® 450 (Product # 48-4724-82) (blue histogram) or Anti-Human HLA-DR eFluor® 450 (purple histogram). Cells in the lymphocyte (left) or monocyte (right) gate were used for analysis.

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18 References

Flow Cytometry (18)

<p><b>Nature</b></p> <p><b>Circuits between infected macrophages and T cells in SARS-CoV-2 pneumonia.</b></p> <p>"48-9952-42 was used in Flow cytometry/Cell sorting to suggest that SARS-CoV-2 causes a slowly unfolding, spatially limited alveolitis in which alveolar macrophages containing SARS-CoV-2 and T cells form a positive feedback loop that drives persistent alveolar inflammation."</p> <p>Authors: Grant RA,Morales-Nebreda L,Markov NS,Swaminathan S,Querrey M,Guzman ER,Abbott DA,Donnelly HK, Donayre A,Goldberg IA,Klug ZM,Borkowski N,Lu Z,Kihshen H,Politanska Y,Sichizya L,Kang M,Shilatifard A,Qi C, Lomasney JW,Argento AC,Kruser JM,Malsin ES,Pickens CO,Smith SB,Walter JM,Pawlowski AE,Schneider D, Nannapaneni P,Abdala-Valencia H,Bharat A,Gottardi CJ,Budinger GRS,Misharin AV,Singer BD,Wunderink RG</p>	<p><b>Year</b> 2021</p> <p><b>Species</b> Human</p> <p><b>Dilution</b> 1:40</p>
<p><b>Scientific reports</b></p> <p><b>Multi-level remodelling of chromatin underlying activation of human T cells.</b></p> <p>"48-9952 was used in Flow cytometry/Cell sorting to identify that T cell activation exemplifies coordinate multi-level remodelling of chromatin underlying gene transcription."</p> <p>Authors: Bediaga NG,Coughlan HD,Johanson TM,Garnham AL,Naselli G,Schröder J,Fearnley LG,Bandala-Sanchez E, Allan RS,Smyth GK,Harrison LC</p>	<p><b>Year</b> 2021</p> <p><b>Species</b> Human</p>

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