

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	Artificial Control, Mouse, Human
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
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_1603291

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	12 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⁺ 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. .

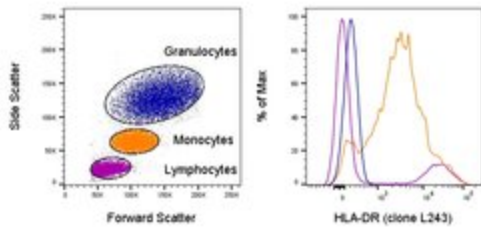
Applications Tested: This L243 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ 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.

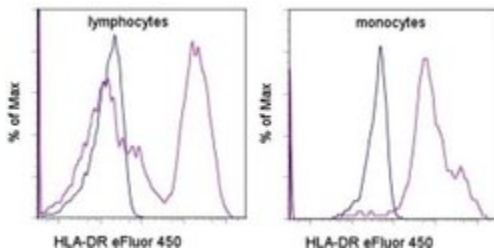
Advanced Verification Data



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. Relative expression validation info.

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



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.

[View more figures on thermofisher.com](https://www.thermofisher.com)

12 References

Flow Cytometry (12)

Nature communications

Single-cell tracking of flavivirus RNA uncovers species-specific interactions with the immune system dictating disease outcome.

"48-9952 was used in Flow cytometry/Cell sorting to demonstrate the tracking of and sense viral RNA at single-cell resolution within complex subsets of the human and murine immune system in different mouse models."

Authors: Douam F, Hrebikova G, Albrecht YE, Sellau J, Sharon Y, Ding Q, Ploss A

Species
Human

Dilution
1:100

Year
2017

Mucosal immunology

Plasmacytoid dendritic cells are scarcely represented in the human gut mucosa and are not recruited to the celiac lesion.

"48-9952 was used in Flow cytometry/Cell sorting to suggest that IFN- is present in the celiac mucosa and IFN- is important in intestinal antiviral defense."

Authors: Ráki M, Beitnes AC, Lundin KE, Jahnsen J, Jahnsen FL, Sollid LM

Species
Human

Dilution
Not Cited

Year
2013

[View more Flow references on thermofisher.com](https://www.thermofisher.com)

More applications with references on thermofisher.com

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