

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LN3
Conjugate	FITC
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_2572544

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	22 Publications
ELISA (ELISA)	-	1 Publication

## 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.

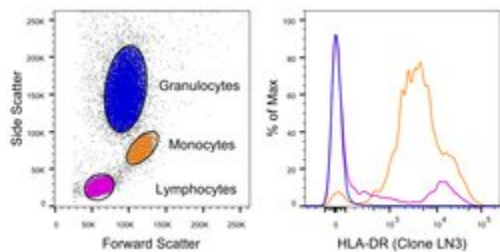
**Applications Reported:** This LN3 antibody has been reported for use in flow cytometric analysis.

**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 (0.125 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

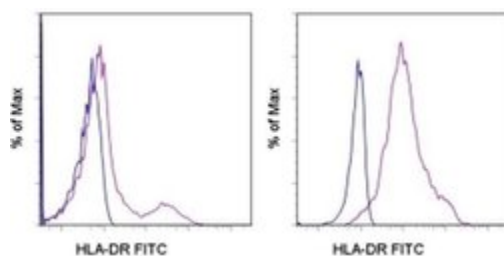
## Advanced Verification Data



### HLA-DR Antibody (11-9956-42)

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), FITC, eBioscience™



### HLA-DR Antibody (11-9956-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG2b K Isotype Control FITC (Product # 11-4732-42) (blue histogram) or Anti-Human HLA-DR FITC (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)

## Immunohistochemistry (2)

Frontiers in molecular neuroscience

### Increased White Matter Inflammation in Aging- and Alzheimer's Disease Brain.

"Published figure using HLA-DR monoclonal antibody (Product # 11-9956-42) in Immunohistochemistry"

Authors: Raj D, Yin Z, Breur M, Doorduyn J, Holtman IR, Olah M, Mantingh-Otter IJ, Van Dam D, De Deyn PP, den Dunnen W, Eggen BJL, Amor S, Boddeke E

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

Cells

### Aquaporin-4 Expression during Toxic and Autoimmune Demyelination.

"Published figure using HLA-DR monoclonal antibody (Product # 11-9956-42) 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

## Immunohistochemistry (Frozen) (1)

Blood

### DNGR-1 is a specific and universal marker of mouse and human Batf3-dependent dendritic cells in lymphoid and nonlymphoid tissues.

"11-9956 was used in Immunohistochemistry to investigate the presence of unique markers in human dendritic cells, showing that DNGR-1 is a specific marker of mouse and human dendritic cells in lymphoid and nonlymphoid tissues."

Authors: Poulin LF, Reyat Y, Uronen-Hansson H, Schraml BU, Sancho D, Murphy KM, Håkansson UK, Moita LF, Agace WW, Bonnet D, Reis e Sousa C

**Species**  
Human

**Dilution**  
1:800

**Year**  
2012

## Immunocytochemistry (1)

Biochemistry and biophysics reports

### Pentraxin-3 regulates the inflammatory activity of macrophages.

"Published figure using HLA-DR monoclonal antibody (Product # 11-9956-42) in Immunocytochemistry"

Authors: Shiraki A, Kotooka N, Komoda H, Hirase T, Oyama JI, Node K

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

## More applications with references on thermofisher.com

Flow (22)

ELISA (1)

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