HLA-DR Monoclonal Antibody (LN3), FITC, 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), 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
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	13 Publications
ELISA (ELISA)	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunohistochemistry (IHC)	-	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.

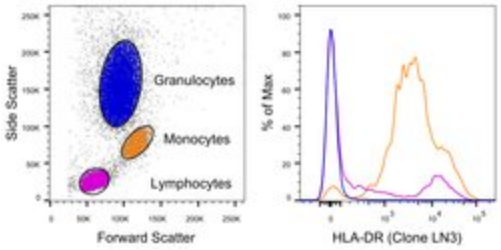
Applications Reported: This LN3 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 cells/test.

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

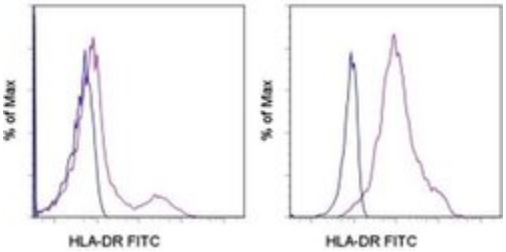
Filtration: 0.2 µm post-manufacturing filtered.

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

18 References

Immunohistochemistry (1)

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,Doorduin 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

Flow Cytometry (13)

Cell reports

Large-Scale Human Dendritic Cell Differentiation Revealing Notch-Dependent Lineage Bifurcation and Heterogeneity.

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

Authors: Balan S,Arnold-Schrauf C,Abbas A,Couespel N,Savoret J,Imperatore F,Villani AC,Vu Manh TP,Bhardwaj N,Dalod M

Species
Not Applicable

Dilution
Not Cited

Year
2018

Stem cell research and therapy

Exosomes secreted by adipose-derived mesenchymal stem cells regulate type I collagen metabolism in fibroblasts from women with stress urinary incontinence.

Authors: Liu X,Wang S,Wu S,Hao Q,Li Y,Guo Z,Wang W

Species
Human

Dilution
Not Cited

Year
2018

View more Flow references on thermofisher.com

ELISA (1)

Stem cell reports

Lack of T Cell Response to iPSC-Derived Retinal Pigment Epithelial Cells from HLA Homozygous Donors.

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

Authors: Sugita S,Iwasaki Y,Makabe K,Kimura T,Futagami T,Suegami S,Takahashi M

Species
Human

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

ICC (1) IF (1) IHC (F) (1)