HLA-DR Monoclonal Antibody (LN3), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Cynomolgus Monkey, Human
Host/Isotope	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	LN3
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_468639

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	15 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
ELISA (ELISA)	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	2 Publications
Immunohistochemistry (IHC)	-	4 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: The LN3 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining. Immunohistochemistry can be performed using frozen and Bouin's, or formalin/paraffin, human tissues.

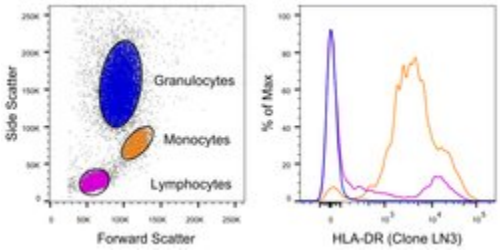
Applications Tested: The LN3 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

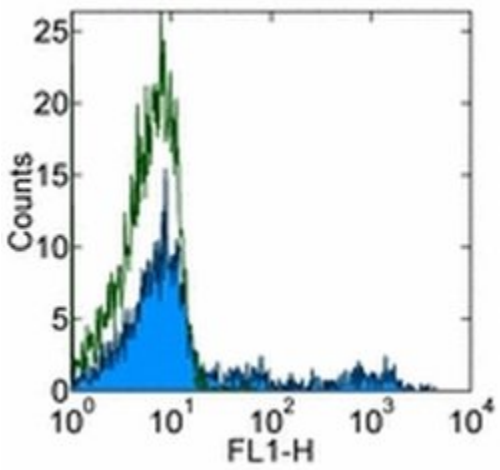
Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



HLA-DR Antibody (14-9956-82)
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), eBioscience™



HLA-DR Antibody (14-9956-82) in Flow
Staining of normal human peripheral blood cells with 0.125 µg of Purified Mouse IgG2b Isotype Control (Product # 14-4732-82) (open histogram) or 0.125 µg of Anti-Human HLA-DR Purified) (filled histogram) followed by Anti-Mouse IgG FITC (Product # 11-4011-85).Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

23 References

Immunohistochemistry (4)

Frontiers in molecular neuroscience

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

"14-9956 was used in Immunohistochemistry to indicate that microglia-induced neuroinflammation is predominant in the white matter of aging mice and humans as well as in EOAD brains."

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
Human

Dilution
1:100

Year
2019

AIDS (London, England)

Plasma soluble CD163 is associated with postmortem brain pathology in human immunodeficiency virus infection.

"14-9956 was used in Immunohistochemistry to demonstrate that higher plasma sCD163 is associated with greater synaptodendritic damage and microglial activation in cortical and subcortical brain regions."

Authors: Bryant AK,Moore DJ,Burdo TH,Lakritz JR,Gouaux B,Soontornniyomkij V,Achim CL,Masliah E,Grant I,Levine AJ,Ellis RJ

Species
Human

Dilution
1:1,000

Year
2017

View more IHC references on thermofisher.com

Flow Cytometry (15)

Cell reports

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

"Published figure using HLA-DR monoclonal antibody (Product # 14-9956-82) 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

Comprehensive characterization of chorionic villi-derived mesenchymal stromal cells from human placenta.

"Published figure using HLA-DR monoclonal antibody (Product # 14-9956-82) in Flow Cytometry"

Authors: Ventura Ferreira MS,Bienert M,Müller K,Rath B,Goecke T,Opländer C,Braunschweig T,Mela P,Brümmendorf TH,Beier F,Neuss S

Species
Not Applicable

Dilution
Not Cited

Year
2018

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

ELISA (1) **ICC (1)** **IF (2)**