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HLA-DR Monoclonal Antibody (LN3), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Cynomolgus monkey, Human
Host/Isotype	Mouse / IgG2b, kappa
Class	Monoclonal
Туре	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
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.125 µg/test	24 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: 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.

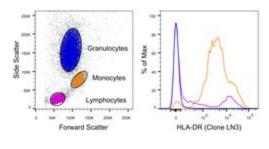
Applications Tested: The LN3 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number 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.

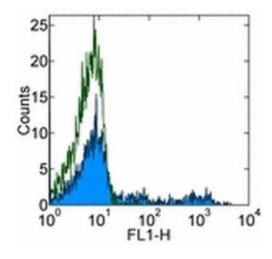
O Advanced Verification Data



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

□ 35 References

Immunohistochemistry (5)

Frontiers in molecular neuroscience	Species
Increased White Matter Inflammation in Aging- and Alzheimer's Disease	Human
Brain.	Dilution
"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."	1:100
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	Year 2020
Cells	Species
Aquaporin-4 Expression during Toxic and Autoimmune Demyelination.	Human Not Applicab
"Published figure using HLA-DR monoclonal antibody (Product # 14-9956-82) in Immunohistochemistry"	
Authors: Rohr SO, Greiner T, Joost S, Amor S, Valk PV, Schmitz C, Kipp M	Dilution 1:1000
	Not Cited
	Year

View more IHC references on thermofisher.com

2020

Immunohistochemistry (Paraffin) (1)

Cells	Species Human
Aquaporin-4 Expression during Toxic and Autoimmune Demyelination.	Not Applicable
"Published figure using HLA-DR monoclonal antibody (Product # 14-9956-82) in Immunohistochemistry"	
Authors: Rohr SO,Greiner T,Joost S,Amor S,Valk PV,Schmitz C,Kipp M	Dilution 1:1000 Not Cited
	Year 2020

Immunohistochemistry (Frozen) (1)

Nature communications	Species	
Gene expression and functional deficits underlie TREM2-knockout	Human	
microglia responses in human models of Alzheimer's disease.	Dilution	
"14-9956-82 was used in Immunohistochemistry (Frozen) to tREM2 deletion reduces microglial survival, impairs phagocytosis of key substrates including APOE, and inhibits SDF-1/CXCR4-mediated chemotaxis, culminating in an impaired response to beta-amyloid plaques in vivo."	1:200 Year 2020	
Authors: McQuade A,Kang YJ,Hasselmann J,Jairaman A,Sotelo A,Coburn M,Shabestari SK,Chadarevian JP,Fote G,Tu CH,Danhash E,Silva J,Martinez E,Cotman C,Prieto GA,Thompson LM,Steffan JS,Smith I,Davtyan H,Cahalan M,Cho H,		

More applications with references on thermofisher.com

ICC/IF (3) Flow (24) ELISA (1)

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