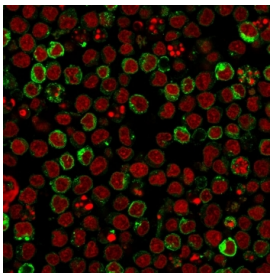
HLA-DR Antibody LN3 / MHC Class II Antibody [clone LN3] (V2586)

Catalog No.	Formulation	Size
V2586-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2586-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2586SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2586IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

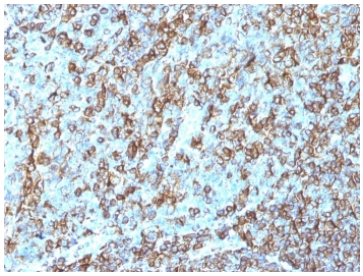
Citations (10)

Bulk quote request

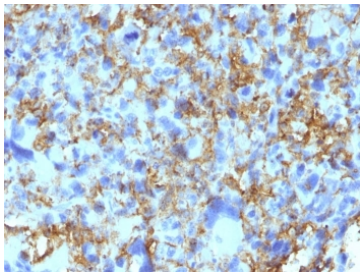
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	LN3
Purity	Protein G affinity chromatography
UniProt	P01911
Localization	Cytoplasmic, membranous
Applications	Flow cytometry: 1-2ug/million cells Immunofluorescence: 1-3ug/ml Western blot: 2-4ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This HLA-DR Antibody LN3 / MHC Class II Antibody is available for research use only.



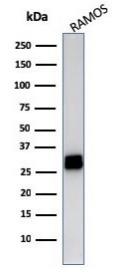
HLA-DR Antibody LN3 in Human Ramos B Lymphoma Cells IF. Immunofluorescence staining of human Ramos B lymphoma cells with HLA-DR Antibody clone LN3. HLA-DR immunoreactivity is shown in green and nuclei are counterstained in red. Strong HLA-DR staining is observed predominantly along the cell periphery, consistent with the membrane localization of the MHC class II HLA-DR complex on these B lymphocytes.



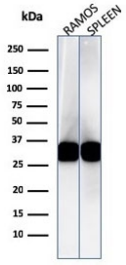
HLA-DR Antibody LN3 in Human Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with HLA-DR Antibody clone LN3. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling before testing. Strong brown HLA-DR immunoreactivity is observed in numerous lymphoid cells throughout the tissue, with prominent membrane-associated staining.



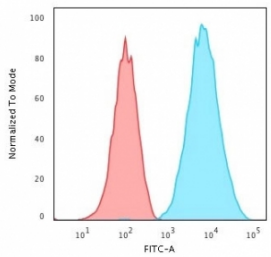
HLA-DR Antibody LN3 in Human Histiocytoma IHC. Immunohistochemistry staining of FFPE human histiocytoma tissue with HLA-DR Antibody clone LN3. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 min followed by cooling before testing. Strong HLA-DR immunoreactivity is observed in numerous cells, with prominent membrane-associated and cytoplasmic staining.



HLA-DR Antibody LN3 in Human Ramos B Lymphoma Cells WB. Western blot testing of human Ramos B lymphoma cell lysate with HLA-DR Antibody clone LN3. A strong, discrete band is detected at approximately 30 kDa, consistent with the expected molecular weight of an HLA-DR component.



HLA-DR Antibody LN3 in Human Ramos B Lymphoma Cells and Spleen WB. Western blot testing of human 1) Ramos B lymphoma cell and 2) spleen tissue lysates with HLA-DR Antibody clone LN3. Strong, discrete bands are detected at approximately 30 kDa in both samples, consistent with the expected molecular weight of an HLA-DR component.



HLA-DR Antibody LN3 in Human Raji B Lymphoma Cells FACS. Flow cytometry analysis of human Raji B lymphoma cells with HLA-DR Antibody clone LN3. The antibody-stained population (blue) shows a strong, well-separated rightward fluorescence shift compared with the isotype control (red), demonstrating robust detection of cell-surface HLA-DR expression.

Description

HLA-DR Antibody LN3 / MHC Class II Antibody recognizes HLA-DR, a major histocompatibility complex (MHC) class II molecule central to antigen presentation and adaptive immune responses. HLA-DR is a heterodimeric cell-surface glycoprotein composed of an alpha chain encoded by HLA-DRA and a beta chain encoded by an HLA-DRB gene. The assembled complex binds peptides derived primarily from extracellular proteins and presents them to CD4-positive T cells, providing an essential molecular link between antigen recognition and T cell-mediated immunity.

HLA-DR is constitutively expressed by professional antigen-presenting cells, including B cells, monocytes, macrophages and dendritic cells, and its expression can be induced on additional cell populations during immune activation. Because of this expression pattern, HLA-DR is widely used as a marker for identifying antigen-presenting cells and evaluating immune activation. HLA-DR biology is relevant to research in immunology, infectious disease, autoimmunity, transplantation and cancer, where changes in MHC class II expression can influence antigen presentation and communication between immune cells.

Clone LN3 is a well-established mouse monoclonal antibody against human HLA-DR and has been extensively used in published research. Its long-standing research use makes LN3 an important clone for investigators studying HLA-DR-positive immune cells, antigen presentation and immune activation. Published use of LN3 spans immune-cell phenotyping and tissue-based investigation of HLA-DR expression, with particularly extensive use in flow cytometry. Independent product records document LN3 across numerous publications and multiple research applications.

NSJ Bioreagents provides clone LN3 as an HLA-DR Antibody for research into MHC class II expression, antigen-presenting cells and immune regulation. The extensive publication history associated with LN3 provides valuable continuity for researchers seeking to compare experimental findings with established HLA-DR literature. An MHC Class II Antibody such as LN3 can support investigation of antigen presentation, immune-cell phenotypes and mechanisms connecting HLA-DR expression with adaptive immune responses.

Explore our Immunology Antibodies page for additional antibodies targeting MHC molecules, immune cell markers and regulators of antigen presentation and adaptive immune responses.

Application Notes

Optimal dilution of the HLA-DR Antibody LN3 / MHC Class II Antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Activated human peripheral blood mononuclear cells were used as the immunogen for the HLA-DR Antibody LN3.

Storage

Store the HLA-DR Antibody LN3 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

HLA-DR antibody, LN3 antibody, MHC Class II antibody, HLA-DR antigen antibody, Human Leukocyte Antigen DR antibody

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