

Anti-Human HLA-DR Antibody, Clone LN3

Antibodies

Mouse monoclonal IgG2b antibody
against human, rhesus HLA-DR,
unconjugated

Catalog #60164

100 µg 0.5 mg/mL



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Product Description

The LN3 antibody reacts with the HLA-DR antigen, a major histocompatibility complex (MHC) class II receptor encoded within the human leukocyte antigen (HLA) complex on chromosome 6. HLA-DR is a heterodimeric transmembrane glycoprotein comprising non-covalently associated α (36 kDa) and β (27kDa) subunits. MHC class II plays a central role in the presentation of antigen-derived peptides to CD4+ T cells, along with CD3/TCR and CD4. HLA-DR is primarily expressed on the surface of antigen-presenting cells, including B cells, dendritic cells, monocytes, macrophages, thymic epithelial cells, and activated T and natural killer (NK) cells. The LN3 antibody binds to an extracellular epitope that reportedly resides within the HLA-BR1 subunit of HLA-DR.

Target Antigen Name:	HLA-DR
Alternative Names:	HLA class II histocompatibility antigen, HLA-DR alpha, HLA-DRA, HLA DRA1, HLA DR1B, HLA DR3B, HLA DRB1, HLA DRB3, HLA DRB4, HLA DRB5, HLADR4B, HLADRA1, HLADRB, Major histocompatibility class II, MHC II, MHC class II, MHC class II antigen DRA, MLRW
Gene ID:	3123
Species Reactivity:	Human, Rhesus
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	LN3
Isotype:	IgG2b, kappa
Immunogen:	Human peripheral blood lymphocytes
Conjugate:	Unconjugated

Applications

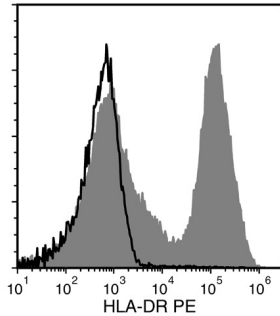
Verified:	CellSep, FC
Reported:	ELISA, FACS, FC, ICC, IF, IHC, IP, WB
Special Applications:	This antibody clone has been verified for labeling dendritic cells generated from monocytes in culture using ImmunoCult™-ACF Dendritic Cell Culture Kit (Catalog #10985).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry, the suggested use of this antibody is $\leq 0.5 \mu\text{g}$ per 1×10^6 cells in 100 μL . It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human HLA-DR Antibody, Clone LN3, followed by an anti-mouse IgG2b antibody, PE (filled histogram), or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11 (Catalog #60072), followed by an anti-mouse IgG2b antibody, PE (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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