Anti-Human HLA-DR Antibody, Clone LN3, Alexa Fluor® 488

Antibodies

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

Fluor® 488-conjugated

100 Tests Catalog #60164AD



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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 (27 kDa) 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**

HLA class II histocompatibility antigen, HLA-DR alpha, HLA-DRA, HLA DRA1, HLA DR1B, HLA DR3B, HLA Alternative Names:

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

Alexa Fluor® 488 Conjugate:

Applications

Verified Applications: FC FC Reported Applications:

This antibody clone has been verified for labeling dendritic cells generated from monocytes in culture using Special Applications:

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 and 0.2% (w/v) bovine serum albumin Purification:

The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal

conditions.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to

light. For product expiry date, please contact techsupport@stemcell.com.

Directions for Use: For flow cytometry, the suggested use of this antibody is 5 µL per 1 x 10⁶ cells in 100 µL. It is

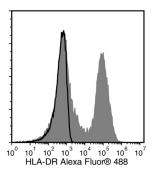
recommended that the antibody be titrated for optimal performance for each application.

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Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human HLA-DR Antibody, Clone LN3, Alexa Fluor® 488 (filled histogram), or Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, Alexa Fluor® 488 (Catalog #60072AD; 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.

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