

Alexa Fluor[®] 700 anti-human HLA-DR Antibody

Catalog# / Size	327013 / 25 µg 327014 / 100 µg
Clone	LN3
Regulatory Status	RUO
Other Names	Major Histocompatibility Class II, MHC class II
Isotype	Mouse IgG2b, κ
Description	The LN3 monoclonal antibody reacts with the HLA-DR antigen, a member of MHC class II molecules. HLA-DR is a heterodimeric cell surface glycoprotein comprised of a 36 kD α (heavy) chain and a 27 kD β (light) chain. It is expressed on B cells, activated T cells, monocytes/macrophages, dendritic cells and other non-professional APCs. In conjunction with the CD3/TCR complex and CD4 molecules, HLA-DR is critical for efficient peptide presentation to CD4 ⁺ T cells.

Product Details

Verified Reactivity	Human
Reported Reactivity	Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	human PBL
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor [®] 700 under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor[®] 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include; immunohistochemical staining ¹ of frozen sections and formalin-fixed paraffin-embedded sections ¹ , and immunoprecipitation ¹ .
Application References	<ol style="list-style-type: none">1. Marder RJ, <i>et al.</i> 1985. <i>Lab. Invest.</i> 52:497.2. Norton AJ and Isaacson PG. 1987. <i>Am. J. Pathol.</i> 128:225.3. Hua ZX, <i>et al.</i> 1998. <i>Hum. Pathol.</i> 29(12):1441.
Product Citations	<ol style="list-style-type: none">1. Weisberg SP, <i>et al.</i> 2020. <i>Cell Reports.</i> 29(12):3916-3932.e5.. PubMed

2. Ghirelli C, *et al.* 2010. *Blood*. 115:5037. [PubMed](#)

RRID AB_893573 (BioLegend Cat. No. 327013)
AB_893565 (BioLegend Cat. No. 327014)

Antigen Details

Structure	Ig superfamily, MHC class II, heterodimeric transmembrane protein
Distribution	B cells, activated T cells, monocytes/macrophages, dendritic cells, other APCs
Function	Peptide presentation
Ligand/Receptor	CD3/TCR, CD4
Cell Type	Antigen-presenting cells, B cells, Dendritic cells, Macrophages, Monocytes, T cells, Tregs
Biology Area	Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	<ol style="list-style-type: none">1. Levacher M, <i>et al.</i> 1990. <i>Clin. Exp. Immunol.</i> 81:177.2. Terstappen L, <i>et al.</i> 1990. <i>J. Leuk. Biol.</i> 48:138.3. Edwards J, <i>et al.</i> 1985. <i>J. Immunol.</i> 137:490.4. van Es A, <i>et al.</i> 1984. <i>Transplantation</i> 37:65.5. O'Doherty U, <i>et al.</i> 1994. <i>Immunology</i> 82:487.6. Thomas R, <i>et al.</i> 1994. <i>J. Immunol.</i> 153:4016.7. Grouard G, <i>et al.</i> 1996. <i>Nature</i> 384:364.
Gene ID	3122 3123

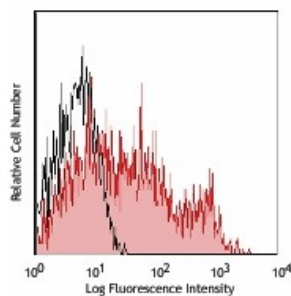
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human HLA-DR, Biotin anti-human HLA-DR, FITC anti-human HLA-DR, PE anti-human HLA-DR, Alexa Fluor® 488 anti-human HLA-DR, Alexa Fluor® 647 anti-human HLA-DR, Alexa Fluor® 700 anti-human HLA-DR, Pacific Blue™ anti-human HLA-DR, PE/Cyanine7 anti-human HLA-DR, PerCP/Cyanine5.5 anti-human HLA-DR, APC anti-human HLA-DR, APC/Fire™ 750 anti-human HLA-DR

Product Data



Human peripheral blood lymphocytes
stained with LN3 Alexa Fluor® 700

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