

PE/Cyanine7 anti-human HLA-DR Antibody

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| Catalog# / Size | 327017 / 25 tests 327018 / 100 tests |
| 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

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| 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 and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| 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 | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 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 . |
| Additional Product Notes | BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions. |
| 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. |
| (PubMed link indicates BioLegend citation) | |
| Product Citations | <ol style="list-style-type: none"> 1. Mitsune A, <i>et al.</i> 2021. <i>Respir Res.</i> 22:232. PubMed 2. Pallazola AM, <i>et al.</i> 2021. <i>Am J Physiol Lung Cell Mol Physiol.</i> 321:L1183. PubMed 3. Lavaert M, <i>et al.</i> 2020. <i>Frontiers in Immunology.</i> 1.610416667. PubMed |

RRID AB_2566388 (BioLegend Cat. No. 327017)
AB_2566389 (BioLegend Cat. No. 327018)

Antigen Details

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| 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 |

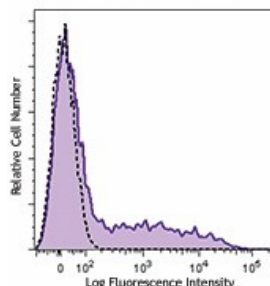
Related Protocols

[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 were stained with HLA-DR (clone LN3) PE/Cyanine7 (filled histogram) or mouse IgG2b, κ PE/Cyanine7 isotype control (open histogram).

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