

Purified anti-human HLA-DR Antibody

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| Catalog# / Size | 361602 / 100 µg |
| Clone | Tü36 |
| Regulatory Status | RUO |
| Other Names | MHC class II, Major Histocompatibility complex II, human leukocyte antigen, HLA |
| Isotype | Mouse IgG2b, κ |
| Description | HLA-DR is a heterodimeric cell surface glycoprotein comprised of an α (heavy) chain and a β (light) chain. They are 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. Variations in the HLA gene expression are crucial to graft survival. |

Product Details

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| Verified Reactivity | Human |
| Reported Reactivity | Baboon, Cynomolgus, Cat, Dog, Cow |
| 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. |
| Concentration | 0.5 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. |
| Application | FC - Quality tested IP, WB - Reported in the literature, not verified in house |
| 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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. |
| Application Notes | Additional reported applications (of relevant formats) includes Western blotting ⁴ , immunoprecipitation ⁴ , and <i>in vitro</i> blocking ⁵ . The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (contact our custom solutions team). |
| Application References | <ol style="list-style-type: none">1. Pawelec G, <i>et al.</i> 1985. <i>Hum. Immunol.</i> 12:165. (FC)2. Shaw S, <i>et al.</i> 1985. <i>Hum. Immunol.</i> 12:191. (FC)3. Ziegler A, <i>et al.</i> 1986. <i>Immunobiology.</i> 171:77. (FC)4. Cebulla CM, <i>et al.</i> 2002. <i>J. Immunol.</i> 169:167. (WB, FC, IP)5. Khaw LT, <i>et al.</i> 2013. <i>PLOS One.</i> 8:e69521. (Block) |
| (PubMed link indicates BioLegend citation) | |
| RRID | AB_2563138 (BioLegend Cat. No. 361602) |

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 |

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| Function | Antigen presentation |
| Ligand/Receptor | CD3/TCR, CD4 |
| Cell Type | Antigen-presenting cells, B cells, Dendritic cells, Macrophages, Monocytes, T cells |
| Biology Area | Immunology, Innate Immunity |
| Molecular Family | MHC Antigens |
| Antigen References | <ol style="list-style-type: none"> 1. Thorsby E. 1974. <i>Transplant. Rev.</i> 18:51. 2. Qvigstad E, <i>et al.</i> 1984. <i>Hum. Immunol.</i> 11:207. 3. Serenius B, <i>et al.</i> 1984. <i>EMBO J.</i> 3:3209. 4. Ottenhoff TH, <i>et al.</i> 1985. <i>Hum. Immunol.</i> 13:105. 5. Strassmann G, <i>et al.</i> 1985. <i>Hum. Immunol.</i> 13:125. 6. Trowsdale J, <i>et al.</i> 1985. <i>Immunol. Rev.</i> 85:5. |
| Gene ID | 3122 3123 3113 3115 |

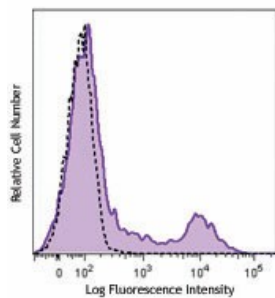
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human HLA-DR, PerCP/Cyanine5.5 anti-human HLA-DR, APC anti-human HLA-DR, FITC anti-human HLA-DR, PE anti-human HLA-DR, PE/Cyanine7 anti-human HLA-DR, APC/Fire™ 750 anti-human HLA-DR

Product Data



Human peripheral blood lymphocytes were stained with purified HLA-DR (clone Tü36) (filled histogram) or mouse IgG2b, κ isotype control (open histogram), followed by anti-mouse IgG FITC.

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