# PE Anti-Human HLA-DQ Antibody[1a3]

**Catalog Number:** AN00421D

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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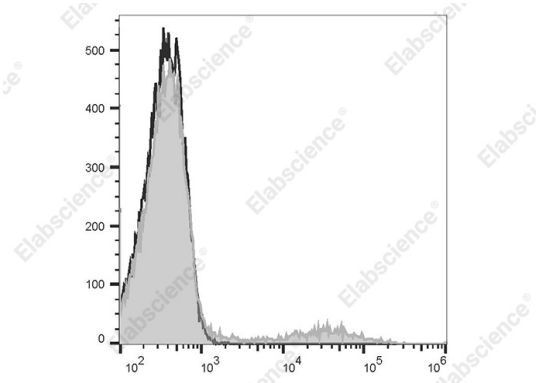
| **Reactivity** | Human |
| **Host** | Mouse |
| **Isotype** | Mouse IgG2a, κ |
| **Clone No.** | 1a3 |
| **Isotype Control** | PE Mouse IgG2a, κ Isotype Control[C1.18.4] [Product E-AB-F09802D] |
| **Conjugation** | PE |
| **Conjugation Information** | PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green (561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42 nm bandpass filter). |
| **Storage Buffer** | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant. |

| Applications | Recommended usage |
|---|---|
| **FCM** | Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. |

## Data




Staining of normal human peripheral blood cells with PE Anti-Human HLA-DQ Antibody[1a3] (filled gray histogram) or PE Mouse IgG2a Isotype Control (empty black histogram). Cells in the lymphocytes gate were used for analysis.

## Preparation & Storage

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| **Storage** | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze. |
| **Shipping** | Ice bag |

## Antigen Information

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| **Alternate Names** | MHC class II DQ monomorphic antigen;MHC II |
| **Uniprot ID** | P01906 |



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| | |
|---|---|
| **Gene ID** | 3117 |
| **Background** | HLA-DQ is also known as MHC class II DQ monomorphic antigen. The major histocompatibility complex is composed of two heterodimeric glycoproteins (α and β chains) with apparent molecular weights of 27 and 32 kD. In contrast to other MHC class II molecules, both polypeptide chains of HLA-DQ are polymorphic, with the α chain showing an extremely high degree of polymorphism. HLA-DQ is expressed on B cells in the peripheral blood, and weakly expressed on activated T cells and some monocytes. HLA-DQ is absent on hematopoietic progenitors, resting T cells, erythrocytes, and platelets. HLA-DQ is expressed after HLA-DR and HLA-DP in hematopoietic development. HLA-DQ presents peptide fragments mainly from degraded intravesicular and extracellular proteins to CD4+ T lymphocytes. Specific alleles of HLA-DQ have been linked to the pathogenesis of several autoimmune diseases (including diabetes), both as a susceptibility and resistance factor depending on the particular polymorphism. |


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