

## PE/Cyanine5.5 Anti-Human HLA-DQ Antibody[1a3]

Catalog Number: GFH00421I

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

### Description

|                         |                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                        |
| Host                    | Mouse                                                                                                                                                                                                        |
| Isotype                 | Mouse IgG2a, $\kappa$                                                                                                                                                                                        |
| Clone No.               | 1a3                                                                                                                                                                                                          |
| Isotype Control         | PE/Cyanine5.5 Mouse IgG2a, $\kappa$ Isotype Control[C1.18.4] [Product E-AB-F09802I]                                                                                                                          |
| Conjugation             | PE/Cyanine 5.5                                                                                                                                                                                               |
| Conjugation Information | PE/Cyanine5.5 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 690 nm (e.g., a 690/50 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                          |

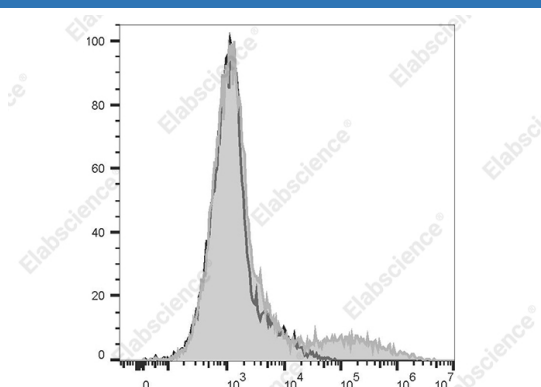
### Applications

FCM

### Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. **The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (millie cells in 100  $\mu$ L staining volume or per 103  $\mu$ L 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/Cyanine5.5 Anti-Human HLA-DQ Antibody[1a3] (filled gray histogram) or PE/Cyanine5.5 Mouse IgG2a Isotype Control (empty black histogram). Cells in the lymphocytes gate were used for analysis.

### Preparation & Storage

|          |                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

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

### For Research Use Only

**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 ( $\alpha$  and  $\beta$  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  $\alpha$  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.