



Source

PE-Labeled Monoclonal Anti-Human HLA-DR Antibody, Mouse IgG2a (L243) is a monoclonal antibody recombinantly expressed from HEK293 cells, which provides higher batch consistency and long term security of supply.

Application

Flow Cytometry (Detection of activated T cells).

Clone

L243

Species

Mouse

Isotype

Mouse IgG2a | Mouse Kappa

Specificity

This product is a specific antibody specifically reacts with HLA-DR protein.

Reactivity

Human

Immunogen

Purified HLA-DR Protein.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Isotype Control

The Isotype control is sold separately and you can search for Cat. No. [DNP-PM487](#) for product information.

Recommended Dilution

1:20

Formulation

Supplied as 0.2 µm filtered solution in PBS, pH7.4, 0.2% BSA, 0.03% Proclin300 with trehalose as protectant.

Contact us for customized product form or formulation.

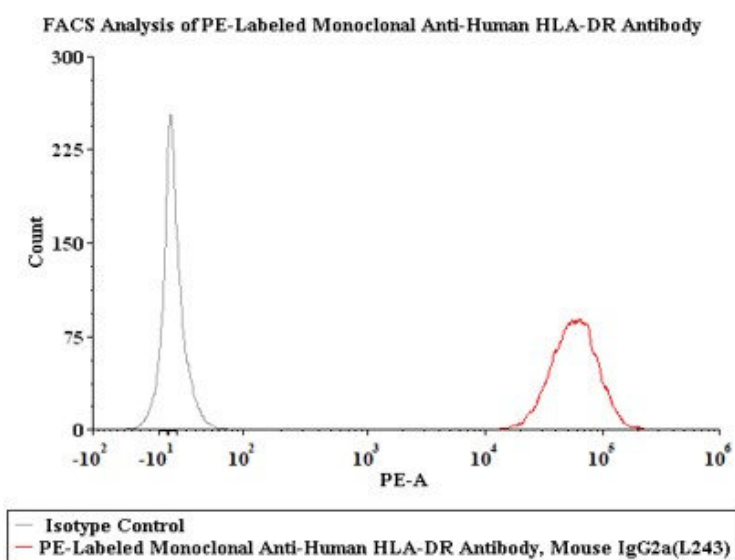
Storage

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- Store at 2-8 °C for 12 months.

Bioactivity-FACS



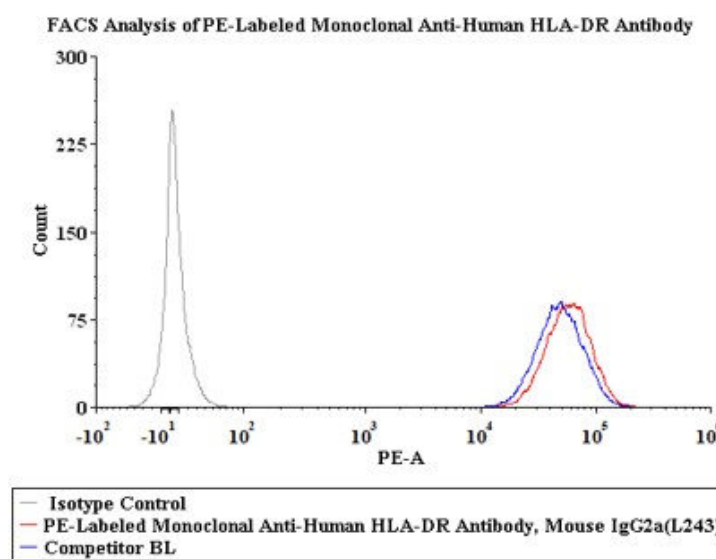
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Flow cytometric analysis of Raji staining with PE-Labeled Monoclonal Anti-Human HLA-DR Antibody, Mouse IgG2a(L243) (Cat. No. FABm020-01) at 1:20 dilution (5 μ L of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100 μ L), compared with isotype control antibody. PE signal was used to evaluate the binding activity (QC tested).

Compared Data



Flow cytometric analysis of Raji staining with PE-Labeled Monoclonal Anti-Human HLA-DR Antibody. PE signal was used to evaluate the binding activity of Anti-Human HLA-DR Antibody. The biological activity level of ACRO is superior to competitor BL (Routinely tested).

Background

HLA-DR, like other MHC class II molecules, is a transmembrane glycoprotein composed of a 36 kDa alpha chain (DRA) and 27 kDa beta chain (DRB). The alpha chain gene contains 5 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, and exon 4 encodes the transmembrane domain and the cytoplasmic tail. DRA does not have polymorphisms in the peptide binding part and acts as the sole alpha chain for DRB1, DRB3, DRB4 and DRB5. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Hundreds of DRB1 alleles have been described and typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. HLA-DR is expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, thymic epithelial cells and activated T lymphocytes. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides, present them to T-helper cells, and have a critical role in the initiation of the immune response.

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