Datasheet for ABIN2749150

anti-HLA-DR antibody (PE)

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Overview

Quantity:	100 tests
Target:	HLA-DR
Reactivity:	Human, Dog, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA-DR antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-HLA-DR PE
Immunogen:	Human B lymphocytes
Clone:	L243
Isotype:	IgG2a kappa
Specificity:	The mouse monoclonal antibody L243 recognizes specifically an extracellular epitope on HLA-DR molecules, both peptide-loaded and empty.
Cross-Reactivity (Details):	Human, Non-Human Primates, Canine (Dog)
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	HLA-DR
Alternative Name:	HLA-DR (HLA-DR Products)
Background:	HLA-DR, a member of MHC class II glycoproteins, that bind intracellularly processed peptides and present them to the Th cells, is composed of 36 kDa alpha chain and 27 kDa beta chain, both anchored in the plasma membrane. Together with other MHC II molecules HLA-DR plays a central role in the immune system.
Pathways:	Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Ivanov, Beers, Walshe, Honeychurch, Alduaij, Cox, Potter, Murray, Chan, Klymenko, Erenpreisa, Glennie, Illidge, Cragg: "Monoclonal antibodies directed to CD20 and HLA-DR can elicit homotypic adhesion followed by lysosome-mediated cell death in human lymphoma and leukemia cells." in: **The Journal of clinical investigation**, Vol. 119, Issue 8, pp. 2143-59, (2009) (PubMed). De Gassart, Camosseto, Thibodeau, Ceppi, Catalan, Pierre, Gatti: "MHC class II stabilization at the surface of human dendritic cells is the result of maturation-dependent MARCH I down-regulation." in: **Proceedings of the National Academy of Sciences of the United States of**

America, Vol. 105, Issue 9, pp. 3491-6, (2008) (PubMed).

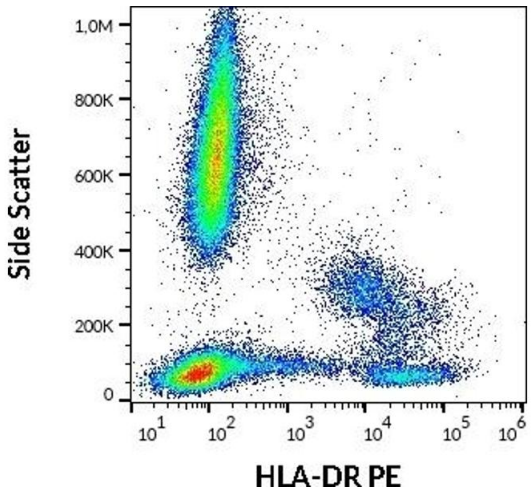
Swiatek-de Lange, Rist, Stahl, Weith, Lenter: "Comment on "MHC class II expression identifies functionally distinct human regulatory T cells"." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 180, Issue 6, pp. 3625; author reply 3626, (2008) (PubMed).

Muczynski, Ekle, Coder, Anderson: "Normal human kidney HLA-DR-expressing renal microvascular endothelial cells: characterization, isolation, and regulation of MHC class II expression." in: **Journal of the American Society of Nephrology : JASN**, Vol. 14, Issue 5, pp. 1336-48, (2003) (PubMed).

Bouillon, El Fakhry, Girouard, Khalil, Thibodeau, Mourad: "Lipid raft-dependent and -independent signaling through HLA-DR molecules." in: **The Journal of biological chemistry**, Vol. 278, Issue 9 , pp. 7099-107, (2003) (PubMed).

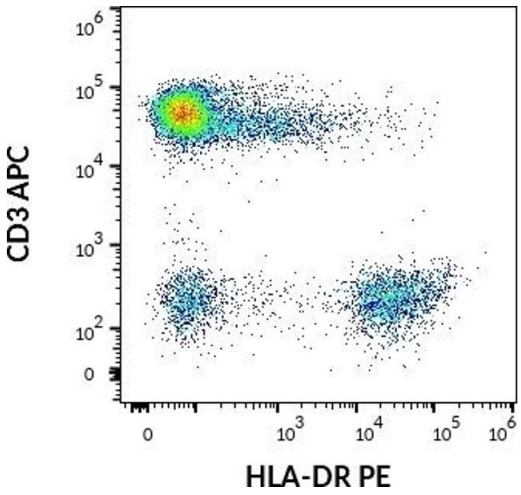
There are more publications referencing this product on: Product page

Images



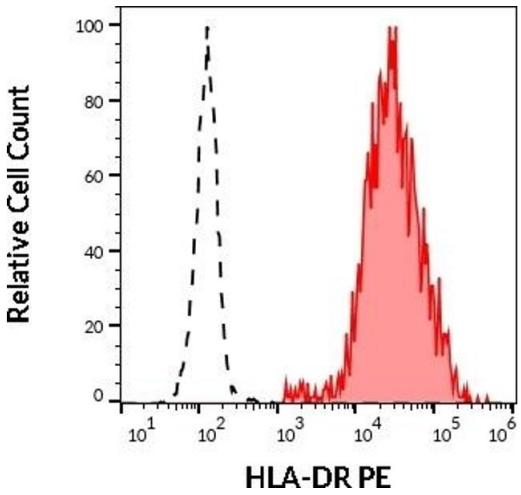
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human HLA-DR (L243) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD3 (UCHT1) APC antibody (10 µL reagent / 100 µL of peripheral whole blood) and anti-human HLA-DR (L243) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 3. Separation of human CD3 negative HLA-DR positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human HLA-DR (L243) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).