

1P-690-T025

Monoclonal Antibody to HLA-DR Phycoerythrin (PE) conjugated (25 tests)

Clone:	L243
Isotype:	Mouse IgG2a
Specificity:	The mouse monoclonal antibody L243 recognizes specifically HLA-DR molecules, both peptide-loaded and empty.
Regulatory Status:	RUO
Immunogen:	Human B lymphocytes
Species Reactivity:	Human, Non-Human Primates, Canine (Dog)
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry 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 (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
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. It is expressed on antigen-presenting cells (dendritic cells, B lymphocytes, monocytes, macrophages).

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

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- *Kalka-Moll WM, Tzianabos AO, Bryant PW, Niemeyer M, Ploegh HL, Kasper DL: Zwitterionic polysaccharides stimulate T cells by MHC class II-dependent interactions. *J Immunol.* 2002 Dec 1;169(11):6149-53.
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- *Swiatek-de Lange M, Rist W, Stahl HF, Weith A, Lenter MC: Comment on "MHC class II expression identifies functionally distinct human regulatory T cells". *J Immunol.* 2008 Mar 15;180(6):3625; author reply 3626.
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- *Ivanov A, Beers SA, Walshe CA, Honeychurch J, Alduaij W, Cox KL, Potter KN, Murray S, Chan CH, Klymenko T, Erenpreisa J, Glennie MJ, Illidge TM, Cragg MS: Monoclonal antibodies directed to CD20 and HLA-DR can elicit homotypic adhesion followed by lysosome-mediated cell death in human lymphoma and leukemia cells. *J Clin Invest.* 2009 Aug;119(8):2143-59.

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