

1P-752-T025

Monoclonal Antibody to CD1c Phycoerythrin (PE) conjugated (25 tests)

Clone:	L161
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody L161 recognizes CD1c, (R7), a 43 kDa type I glycoprotein associated with beta2-microglobulin. It is expressed on cortical thymocytes (strongly), Langerhans cells, dendritic cells, B and some T cells.
Regulatory Status:	RUO
Immunogen:	human thymocytes
Species Reactivity:	Human
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:	CD1c (also known as R7 or BDCA1) together with CD1a and b, belongs to group 1 of CD1 antigens. These non-classical MHC-like glycoproteins serve as antigen-presenting molecules for a subset of T cells that responds to specific lipids and glycolipids found in the cell walls of bacterial pathogens or self-glycolipid antigens such as gangliosides, and they have also roles in antiviral immunity. The trafficking routes of the particular CD1 types differ and correspond to their ability to bind and present different groups of antigens. CD1c is unique in its ability to present e.g. mycobacterial phosphoketides and polyisoprenoids. CD1c is the only CD1 isoform that has been shown to interact both with alpha/beta and gamma/delta T cells.

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

**Antibodies****References:**

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- *Todate A, Chida K, Suda T, Imokawa S, Sato J, Ide K, Tsuchiya T, Inui N, Nakamura Y, Asada K, Hayakawa H, Nakamura H: Increased numbers of dendritic cells in the bronchiolar tissues of diffuse panbronchiolitis. *Am J Respir Crit Care Med.* 2000 Jul;162(1):148-53.
- *Xu C, de Vries R, Visser L, Diepstra A, Gadola SD, Poppema S, van den Berg A: Expression of CD1d and presence of invariant NKT cells in classical Hodgkin lymphoma. *Am J Hematol.* 2010 Jul;85(7):539-41. doi: 10.1002/ajh.21743.

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