

**ARG42328**  
anti-CD1c antibody [L161] (APC)

Package: 50 tests

Store at: 4°C

### Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [L161] recognizes CD1c
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The mouse monoclonal antibody L161 recognizes an extracellular epitope of 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.
Host	Mouse
Clonality	Monoclonal
Clone	L161
Isotype	IgG1, kappa
Target Name	CD1c
Species	Human
Immunogen	Human thymocytes.
Conjugation	APC
Alternate Names	R7; CD antigen CD1c; CD1A; CD1; T-cell surface glycoprotein CD1c; BDCA1

### Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 100 µl of whole blood or 10 <sup>6</sup> cells

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

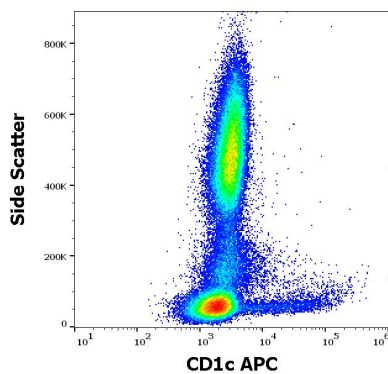
### Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

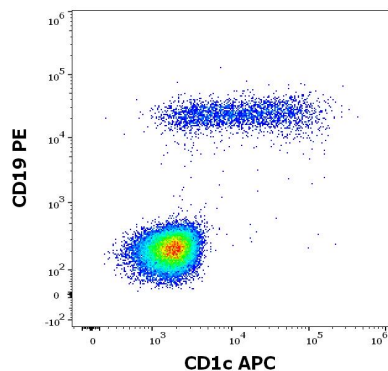
Gene Symbol	CD1C
Gene Full Name	CD1c molecule
Background	This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene is broadly distributed throughout the endocytic system via a tyrosine-based motif in the cytoplasmic tail. Alternatively spliced transcript variants of this gene have been observed, but their full-length nature is not known. [provided by RefSeq, Jul 2008]
Function	Antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells. [UniProt]
Calculated Mw	38 kDa
Cellular Localization	Cell membrane; Single-pass type I membrane protein. Endosome membrane; Single-pass type I membrane protein. Lysosome. Note=Subject to intracellular trafficking between the cell membrane and endosomes. [UniProt]

## Images



ARG42328 anti-CD1c antibody [L161] (APC) FACS image

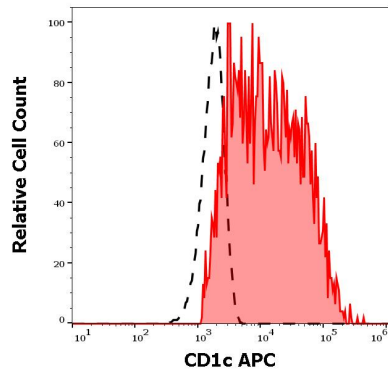
Flow Cytometry: Human peripheral whole blood stained with ARG42328 anti-CD1c antibody [L161] (APC) at 10  $\mu$ l / 100  $\mu$ l of peripheral whole blood.



ARG42328 anti-CD1c antibody [L161] (APC) FACS image

Flow Cytometry: Human lymphocytes stained with ARG42328 anti-CD1c antibody [L161] (APC) at 10  $\mu$ l / 100  $\mu$ l of peripheral whole blood and [ARG53783](#) anti-CD19 antibody [LT19] (PE) at 20  $\mu$ l / 100  $\mu$ l of peripheral whole blood.

### ARG42328 anti-CD1c antibody [L161] (APC) FACS image



Flow Cytometry: Separation of Human CD1c positive CD19 positive B cells (red-filled) from Human CD1c negative CD19 negative lymphocytes (black-dashed). Human peripheral whole blood stained with ARG42328 anti-CD1c antibody [L161] (APC) at 10  $\mu$ l / 100  $\mu$ l of peripheral whole blood.