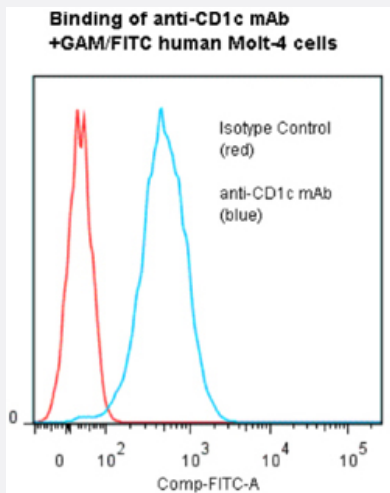


CD1C monoclonal antibody, clone M241

Catalog # MAB22942 Size 100 ug

Applications



Flow Cytometry

Five x 10⁵ cultured human Molt-4 cells per tube were incubated 45 minutes on ice with 80 uL anti-CD1c antibody at 10 ug/mL. Cells were washed twice and incubated with secondary reagent goat anti-mouse IgG/FITC at a 1:60 dilution factor, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.45 log₁₀ fluorescent units when compared to a mouse IgG1 negative control at a similar concentration.

Specification

Product Description	Mouse monoclonal antibody raised against native CD1C.
Immunogen	Human T cell line Molt 4.
Host	Mouse
Reactivity	Human
Specificity	This antibody is specific for the CD1c molecule of about 48 kd.
Form	Liquid
Purification	Protein A purification
Isotype	IgG1, kappa

Recommend Usage

Flow Cytometry
Immunohistochemistry (Frozen sections)
The optimal working dilution should be determined by the end user.

Storage Buffer

In 50 mM sodium phosphate buffer, 100 mM potassium chloride, 150 mM NaCl, pH 7.5.

Storage Instruction

Store at 4°C.
Do not freeze.

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Gene Info — CD1C

Entrez GeneID[911](#)**Gene Name**

CD1C

Gene Alias

BDCA1, CD1, CD1A, R7

Gene Description

CD1c molecule

Omim ID[188340](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

Other Designations

CD1C antigen|CD1C antigen, c polypeptide|OTTHUMP00000018909|T-cell surface glycoprotein CD1c|cortical thymocyte antigen CD1C|differentiation antigen CD1-alpha-3

Pathway

- [Hematopoietic cell lineage](#)

Disease

- [Lung Diseases](#)
- [Mycobacterium Infections](#)