

Monoclonal Anti-human CD1a

Product reference: DDX0081

Description:

CD1 family molecules have structural homologies with MHC class I molecules. They are monomeric proteins of 50 kDa, non-covalently associated with β 2-microglobulin. Human CD1a molecules are divided in 2 groups. Group 1 includes CD1a, CD1b, and CD1c, while group 2 consists of the CD1d molecule. CD1a is mainly expressed at the cell-surface and in recycling vesicles. CD1a occurs in Birbeck granules of Langerhans cells and plays a role in presentation of non-peptide antigens. CD1a is expressed *in vitro* on CD34⁺-generated DCs and on monocyte-derived DCs. (*Burdin N. et al., 1999, Curr Opin Immunol, 11:326-31*).

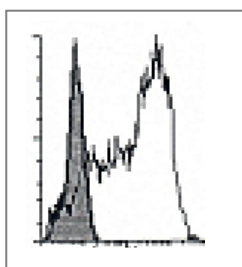
Clone: 201B5.08
Species: mouse, IgG1
Specificity: human CD1a (epitope in extracellular domain)
Immunogen: *in vitro* derived human DCs (GM-CSF + TNF α)
Species cross-reactivity: nd
Purification: QMA hyper D ion exchange chromatography
Formulation/size: **Purified:** 100 μ g in 200 μ l / 50 μ g in 100 μ l Tris-NaCl pH 8

Available formats: (other clones available on request)

Reference		Format	Application tested
50 μ g	100 μ g		
DDX0081P-50	DDX0081P-100	Purified	surface Flow Cytometry, IHC cryosection
DDX0081A488-50	DDX0081A488-100	Alexa-fluor®488	Surface flow cytometry, IF
DDX0081A546-50	DDX0081A546-100	Alexa-fluor®546	<i>On request</i>
DDX0081A647-50	DDX0081A647-100	Alexa-fluor®647	Surface flow cytometry
DDX0081B-50	DDX0081B-100	Biotin	<i>On request</i>

Applications tested

Surface flow cytometry



Surface FACS analysis of CD1a expression on CD34⁺-derived DCs (day 12 of culture)

Usage recommendation: *This monoclonal antibody may be used between 5-20 μ g/ml
 *Optimal dilution should be determined by each laboratory for each application
 *Coupled antibody: to maintain RT before using

Antibody storage conditions: -20°C. **KEEP CONTENTS STERILE: no preservative.**
Purified antibodies: avoid repeated freeze/thaw cycles.
Coupled antibodies: glycerol protects from freezing

Not for use in Humans. For research purpose only