

Monoclonal Anti-human CD1a

Product reference: DDX0080

Description

CD1 family molecules have a homologous structure to MHC class I. They are monomorphic 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's 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.

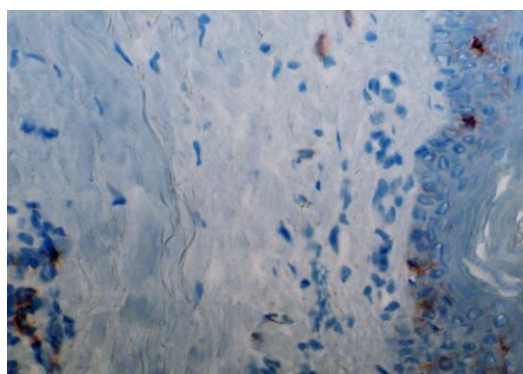
(Burdin N. et al, 1999 ; *Curr. Opin. Immunol.*, 11:326-31 ; Valladeau J. et al, 1999; *Immunity*, 12:71-81)

Clone:	214A9.01
Species	mouse
Specificity:	human CD1a (epitope in extracellular domain)
Immunogen:	<i>in vitro</i> derived human DCs (GMCSF + TNF α)
Species cross-reactivity:	nd
Isotype:	IgM
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
	Coupled: 100 μ g in 200 μ l / 50 μ g in 100 μ l PBS 50% glycerol

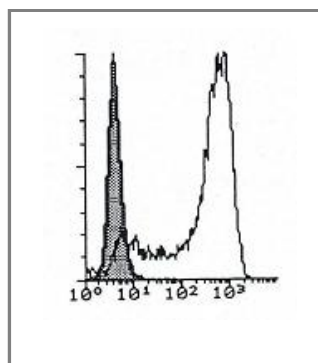
Available formats: (other clones available on request)

Reference		Format	Application tested
50 μ g	100 μ g		
DDX0080P-50	DDX0080P-100	Purified	Flow cytometry, IHC cryosection
DDX0080A488-50	DDX0080A488-100	Alexa-fluor@488	Surface flow cytometry, IF
DDX0080A546-50	DDX0080A546-100	Alexa- fluor@546	IF, on request
DDX0080A647-50	DDX0080A647-100	Alexa- fluor@647	Surface flow cytometry
DDX0080B-50	DDX0080B-100	biotin	(on request)

Applications tested: Flow cytometry, Immunohistochemistry



Human skin cryosection stained with 214A9



Facs staining of *in vitro*-derived DCs with 214A9.01

Other application: WB

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 use.

Aliquot 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