DENDRITICS

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 β2-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)*

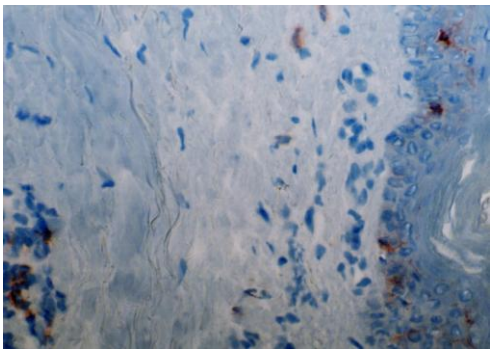
Clone:	**214A9.01**
Species	mouse
Specificity:	human CD1a (epitope in extracellular domain)
Immunogen:	*in vitro* derived human DCs (GMCSF + TNFα)
Species cross-reactivity:	nd
Isotype:	IgM
Purification:	QMA Hyper D ion exchange chromatography
Formulation/size:	**Purified**: 100 µg in 200 µl / 50 µg in 100 µl Tris-NaCl pH 8 **Coupled**: 100 µg in 200 µl / 50 µg in 100 µl PBS 50% glycerol

Available formats:

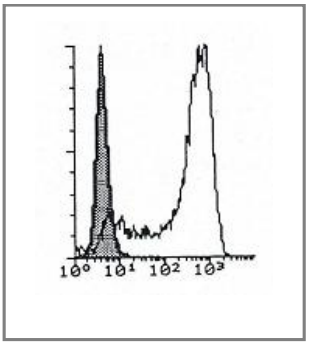
Reference		Format	Application tested
50µg	**100µg**		
DDX0080P-50	DDX0080P-100	Purified	Flow cytometry, IHC cryosection
DDX0080A488-50	DDX0080A488-100	Alexa-fluor®488	Surface flow cytometry, IF
DDX0080A546-50	DDX0080A546-100	Alexa-fluor®546 (*on request)*	IF
DDX0080A647-50	DDX0080A647-100	Alexa- fluor®647	Surface flow cytometry
DDX0080B-50	DDX0080B-100	Biotin (*on request*)	IHC, Flow cytometry

Other clones available 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 µg/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. <u>Purified</u> antibodies: avoid repeated freeze/thaw cycles. <u>Coupled</u> antibodies: glycerol protects from freezing.**

Not for use in Humans. For research purpose only

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