

Monoclonal Anti-human DC-SIGN-like

Product reference: DDX0200

Description

We have generated an antibody recognizing an antigen which has a tissular distribution and a size (western blot) identical to DC-SIGN. This antibody does not recognize DC-SIGN 1 expressed in HeLa cells. DC-SIGN (“**DC Specific, ICAM-3 Grabbing, Nonintegrin**”) / CD209 is a type II membrane protein with an external mannose-binding C-type lectin domain, DC-SIGN is expressed by immature and mature dendritic cells (DC). In the skin, DC-SIGN⁺ DC are exclusively located in the dermis. DC-SIGN binds to ICAM-3 on resting T cells, establishing DC-T cell contact and adaptive immunity. DC-SIGN is a high affinity receptor for HIV gp120, allowing HIV capture and transmission to CD4⁺ T cells. In addition to HIV, DC-SIGN is a receptor for a number of other viral and cellular pathogens including *Mycobacterium Tuberculosis*, and is a major player in microbial evasion of the immune system.

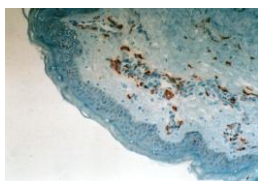
(Geijtenbeek, T et al, *Cell*; 2000; 100: 587-597; van Kooyk Y et al, *Nat. Rev. Immunol.*; 2003; 3: 697-709) (Schwartz Olivier Institut Pasteur-Paris)

Clone:	118A8.05
Species:	mouse
Specificity:	human (epitope in extracellular domain)
Immunogen:	human (GMCSF + TNF) DC subset
Species cross-reactivity:	nd
Isotype:	IgG1
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

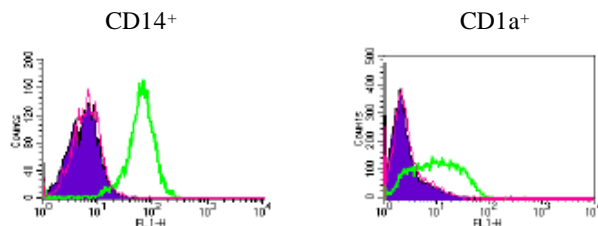
Available formats:

Reference N°		Format	Application tested
50 µg	100 µg		
DDX0200P-50	DDX0200P-100	purified	Surface FC, antigen uptake, IHC, WB
DDX0200A488-50	DDX0200A488-100	Alexa-fluor@488	Surface Flow cytometry, IF
DDX0200A546-50	DDX0200A546-100	Alexa-fluor@546	IF
DDX0200A647-50	DDX0200A647-100	Alexa-fluor@647	Surface Flow cytometry
DDX0200B-50	DDX0200B-100	Biotin	WB

Applications tested: IHC staining of paraffin , flow cytometry



Frozen skin section (DAB)



DC-SIGN-like expression on monocyte-derived DCs subsets. Blood monocytes were cultured in different conditions to obtain CD1a⁺ cells or CD14⁺ cells. Subsets were analyzed for DC-SIGN-like expression. (Mueller C., Courtesy)

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.**
- Purified antibodies: avoid repeated freeze/thaw cycles.**
- Coupled antibodies: glycerol protects from freezing.**

Not for use in Humans. For research purpose only