

Monoclonal Anti-human DC-SIGN/CD209

Product reference: DDX0208

Description

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 and al, Cell, 2000; 100: 587-597; van Kooyk Y and al, Nat. Rev. Immunol., 2003; 3: 697-709*)

Clone: 120C11.01
Species: mouse
Specificity: human (epitope in extracellular domain)
Immunogen: HeLa cells stably transfected-with human DC-SIGN
Species cross-reactivity: no cross-reactivity with **human L-SIGN**
Isotype: IgG2b, κ
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

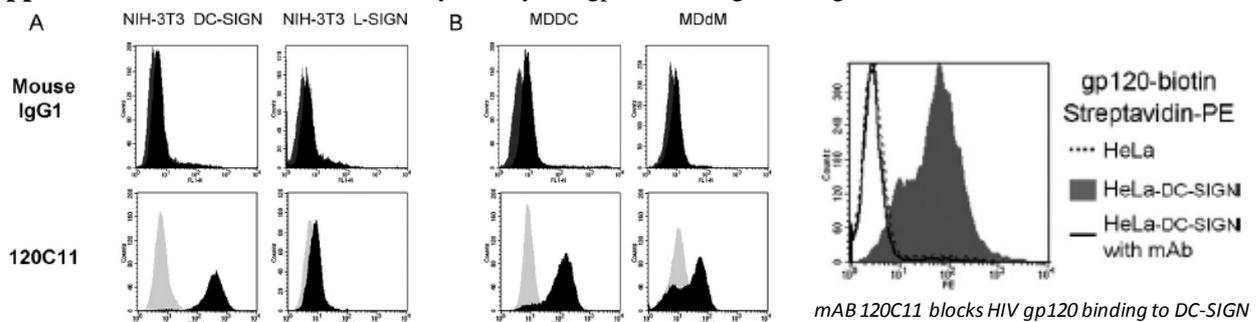
Available formats:

Reference N°		Format	Application tested
50 µg	100 µg		
DDX0208P-50	DDX0208P-100	purified	Surface Flow cytometry, Inhibition of HIVgp120 binding to DC-SIGN
DDX0208A488-50	DDX0208A488-100	Alexa-fluor®488	Surface Flow cytometry, IF
DDX0208A647-50	DDX0208A647-100	Alexa-fluor®647	Surface Flow cytometry
DDX0208B-50	DDX0208B-100	Biotin (<i>on request</i>)	Surface Flow cytometry

VH and VL regions of this antibody were sequenced ; other clones available on request

Applications tested:

Flow cytometry and gp120-binding blocking studies.



MDDC (monocyte-derived dendritic cells); MDdM (monocyte-derived dermal macrophages)

Canard Bet al, Immunol Lett, 2011

Usage recommendation:

- *This monoclonal antibody may be used between 3-20 µg/ml.
- *Optimal dilution should be determined by each laboratory for each application.
- *Coupled antibody: to maintain RT before use.

HIV-gp120 blocking protocol:

HeLa and HeLa-DC-SIGN were incubated with 100µl of DC-SIGN antibody (3-10µg/ml) during 30' at 37°C. Cells were washed with culture medium during 5' at 1600 rpm, and stained with biotin-gp120 (5µg/ml) during 1h at 37°C (*Immunodiagnosics*). Cells were washed with culture medium during 5' at 1600 rpm followed by staining with PE-conjugated streptavidin (dilution 1/20) during 30' at 4°C (*Becton Dickinson*). After a last washing, cells were analyzed by flow cytometry.

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