DENDRITICS

Monoclonal Anti-human DC-SIGN/CD209

Product reference: DDX0204

Description

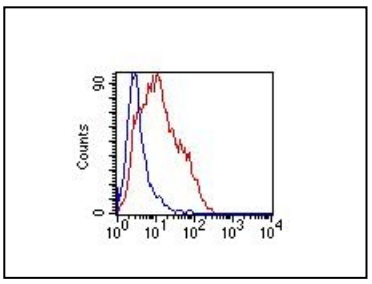
DC-SIGN ("**DC S**pecific, **I**CAM-3 **G**rabbing, **N**onintegrin") / CD209 and liver/lymph node-specific ICAM-3-grabbing nonintegrin (L-SIGN) (CD299/DC-SIGNR for DC-SIGN-related molecule; DC-SIGN2) are closely related genes that map to chromosome 19p13.3.Both genes encode a member of the C-type lectin family of type II transmembrane proteins. The two receptors are 77% identical at the amino acid level, have similar ligands. They are expressed in different tissues. DC-SIGN is expressed on dendritic cells and macrophages . L-SIGN is found in the endothelial cells of liver, lymph nodes, and placenta and is absent on DCs and macrophages. Both receptors have been shown to interact with ICAM-3–DC-SIGN–is a high affinity receptor for HIV gp120, *(Soilleux EJ. 2003, Clinical Science 104, 437-; Dakappagari N., et al. 2006, The J Immunol, 176, 426 ; Geijtenbeeck T.B., et al. 2000, Cell, 100, 575 ; Bashirova A. et al., 2001, J.Exp. Med.,193, 671)* Antibodies have been selected with NIH3T3 transfected cells with either L-SIGN, or DC-SIGN.

Clone: **108C7.01**
Species : mouse
Specificity: human DC-SIGN
Immunogen: HeLa cells stably transfected-with human DC-SIGN
Specied cross- reactivity: human **L-SIGN**. Not tested on other species
Isotype: IgG2b, k
Formulation/size: **Purified**: 100 µg in 200µl / 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		
DDX0204P-50	DDX0204P-100	purified	Surface flow cytometry, HIV gp120 binding studies
DDX0204A488-50	DDX0204A488-100	Alexa-fluor®488	Surface Flow cytometry
DDX0204A546-50	DDX0204A546-100	Alexa- fluor®546	IF
DDX020A647-50	DDX020A647-100	Alexa- fluor®647	Surface Flow cytometry
DDX0204B-50	DDX0204B-100	Biotin	(*On request)*

Applications tested: flow cytometry and blocking studies



HIV-gp120 binding on DC-SIGN HeLa transfected cells.
red: without blocking ,
blue: blocking activity

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 using

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

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