

Human DC-SIGNR/CD299 Antibody

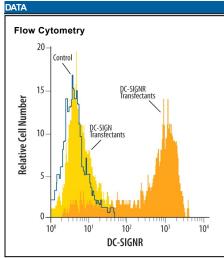
Monoclonal Mouse IgG_{2B} Clone # 120604 Catalog Number: MAB162

DESCRIPTION						
Species Reactivity	Human					
Specificity	Detects human DC-SIGNR/CD299.					
Source	Monoclonal Mouse IgG _{2B} Clone # 120604					
Purification	Protein A or G purified from hybridoma culture supernatant					
Immunogen	NIH-3T3 mouse embryonic fibroblast cell line transfected with human DC-SIGNR/CD299 Accession # Q9H2X3					
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.					

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Sample Concentration			
Flow Cytometry	2.5 μg/10 ⁶ cells See Below			
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.			
Adhesion Blockade	The adhesion of NIH-3T3 mouse embryonic fibroblast cells (5 x 10 ⁴ cells/well) to immobilized Recombinant Human ICAM-3/CD50 Fc Chimera (Catalog # 715-IC, 5 μg/mL, 100 μL/well) was maximally inhibited (80-100%) by 2.5 μg/mL of the antibody.			



Detection of DC-SIGNR/CD299 in Human DC-SIGNR/CD299 Transfected 3T3 Mouse Cell Line by Flow

Human DC-SIGNR/CD299 and DC-SIGN transfected 3T3 mouse embryonic fibroblast cell line were stained with Mouse Anti-Human DC-SIGNR/CD299 Monoclonal Antibody (Catalog # MAB162, filled histograms) or isotype control antibody (Catalog # MAB041, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab)₂ Secondary Antibody (Catalog # F0102B).

			RAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

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BACKGROUND

Dendritic cell-specific ICAM-3 grabbing non-integrin (DC-SIGN or CD299) and DC-SIGN related protein (DC-SIGNR, DC-SIGN2, L-SIGN or CD209L) are type II membrane proteins that are mannose-specific calcium-dependent (C-type) lectins. The two proteins share 77% amino acid identity. DC-SIGN mediates interactions between dendritic cells (DCs) and T cells. Both DC-SIGN and DC-SIGNR have been shown to bind HIV, hepatitis C glycoproteins, Ebola virus glycoproteins and the cellular adhesion protein ICAM-3 (1-4). DC-SIGN and DC-SIGNR appear to selectively recognize and bind viral proteins containing a large portion of high-mannose oligosaccharides (5). Though DC-SIGN and DC-SIGNR are found on the same chromosome, they are not expressed in the same tissue. DC-SIGN is expressed solely on Dendritic cells while DC-SIGNR is found on endothelial cells in the liver and lymph node sinuses and in a significant portion of capillary endothelial cells in term placenta (1, 4).

References:

- 1. Pohlmann, S. et al. (2001) Proc. Natl. Acad. Sci. USA 98:2670.
- 2. Pohlmann, S. et al. (2003) J. Virol. 77:4070.
- 3. Simmons, L.G. et al. (2003) J. Virol. 77:1337
- 4. Bahirova, A.A. et al. (2001) J. Exp. Med. 193:671.
- 5. Feinberg, H. et al. (2001) Science 294:2163.

