Human DC-SIGNR/CD299 PE-conjugated Antibody
Monoclonal Mouse IgG_2B Clone # 120604
Catalog Number: FAB162P
100 Tests

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
Conjugate Phycoerythrin
Excitation Wavelength: 488 nm
Emission Wavelength: 565-605 nm
Formulation Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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 Concentration Sample
Flow Cytometry 10 µL/10^6 cells See Below

DATA
Flow Cytometry
Detection of DC-SIGNR/CD299 in 3T3 Mouse Cell Line Transfected with Human DC-SIGNR/CD299 by Flow Cytometry. 3T3 mouse embryonic fibroblast cell line transfected with human DC-SIGNR/CD299 was stained with Mouse Anti-Human DC-SIGNR/CD299 PE-conjugated Monoclonal Antibody (Catalog # FAB162P, filled histogram) or isotype control antibody (Catalog # IC0041P, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE
Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage Protect from light. Do not freeze.
- 12 months from date of receipt, 2 to 8 °C as supplied.

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: