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.

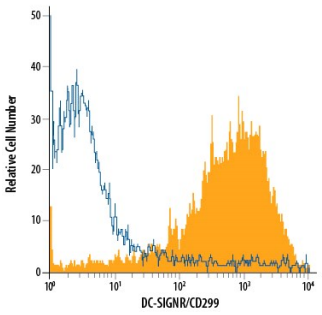
APPLICATIONS

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:

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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956