

Mouse CD161/NK1.1 Biotinylated Antibody

Monoclonal Mouse IgG_{2A} Clone # PK136 Catalog Number: FAB76141B

100 Tests

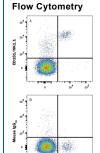
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse CD161/NK1.1 in Flow Cytometry.		
Source	Monoclonal Mouse IgG _{2A} Clone # PK136		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	NK-1+ cells from mouse spleen and bone marrow Accession # AAH61168		
Conjugate	Biotin Excitation Wavelength: N/A nm Emission Wavelength: N/A 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	C57BL/6 splenocytes

DATA



Detection of CD161/NK1.1 in Mouse Splenocytes by Flow Cytometry. Mouse C57BL/6 splenocytes were stained with (A) Mouse Anti-Mouse CD161/NK1.1 biotinylated Monoclonal Antibody (Catalog # FAB76141B) or (B) Mouse IgG2A Isotype Control (Catalog # IC003B) followed by Allophycocyanin-conjugated Streptavidin (Catalog # F0050) and Rat Anti-Mouse NKp46/NCR1 PE-conjugated Monoclonal Antibody (Catalog # FAB22252P). Staining was performed using our Staining Membrane-associated Proteins protocol.

PREPARATION AND STORAGE

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

Stability & Storage

Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

NK-1.1 surface antigen is encoded by the NKR-P1B/NKR-P1C gene, also known as CD161b/CD161c and Ly-55. It is expressed on NK cells and NK-T cells in some mouse strains, including C57BL/6, FVB/N, and NZB, but not AKR, BALB/c, CBA/J, C3H, DBA/1, DBA/2, NOD, SJL, and 129. Expression of NKR-P1C antigen has been correlated with lysis of tumor cells in vitro and rejection of bone marrow allografts in vivo. NK-1.1 has also been shown to play a role in NK cell activation, IFN-gamma production, and cytotoxic granule release. NK-1.1 and DX5 are commonly used as mouse NK cell markers. The PK136 antibody has been reported to deplete NK cells, induce redirected lysis, block NK cell function, and induce NK cell proliferation.

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