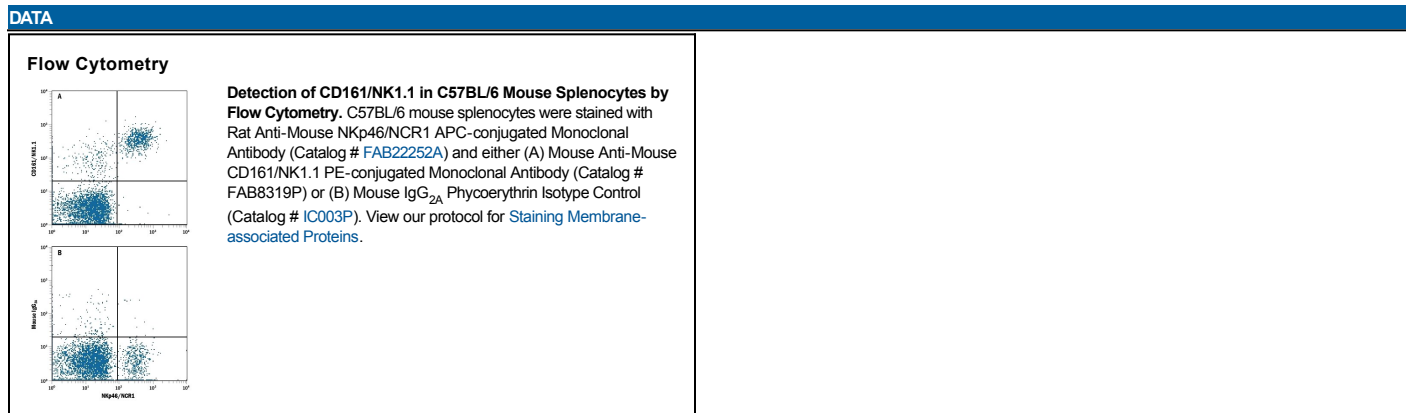


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse CD161/NK1.1 by flow cytometry
Source	Monoclonal Mouse IgG _{2A} Clone # PK136
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse NK-1 ⁺ splenocytes and bone marrow cells
Conjugate	Phycoerythrin Excitation 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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Flow Cytometry	10 μ L/10 ⁶ cells	See Below



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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD161, also known as NK1.1, KLRB-1C, Ly-55, and NKR-P1c, is a 28 kDa type 2 transmembrane protein in the Killer Cell Lectin-like Receptor family. CD161 is expressed as a disulfide-linked homodimer on the surface of NK cells and subpopulations of NKT, CD4⁺, CD8⁺, and γ/δ T cells. Its cross-linking on NK cells induces cytolytic activity, and on CD4 cells it promotes IgE production and the expansion of Th2 responses. Mature mouse CD161 consists of a 45 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 157 aa extracellular domain with one C-type lectin domain.