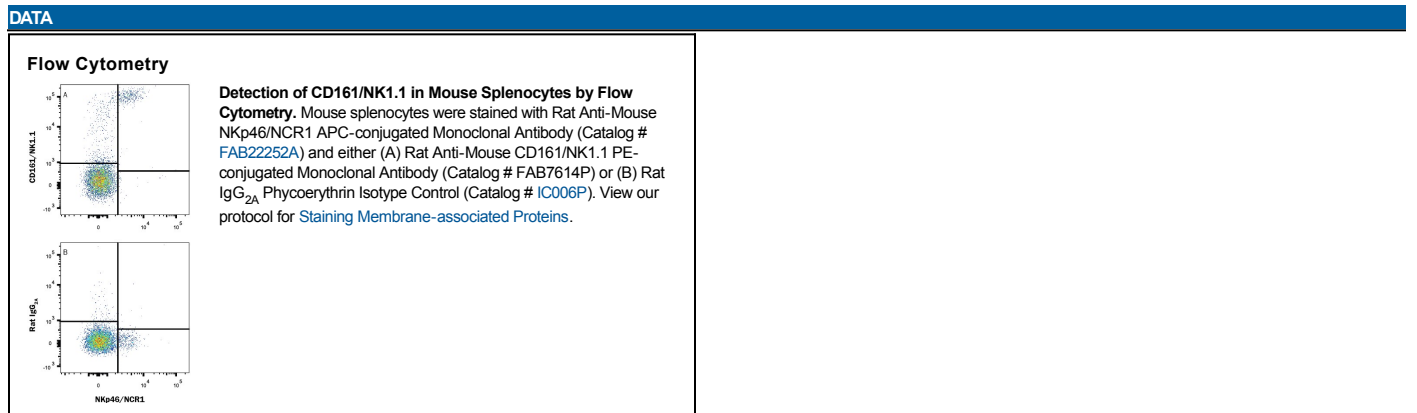


DESCRIPTION	
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD161/NK1.1 expressed specifically in the C57/B6 mouse strain. No detection of CD161/NK1.1 was observed in the BALB/c mouse strain. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse (rm) KLRB-1B is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 694370
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse CD161/NK1.1 Val62-Ser220 Accession # P27814
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
<b>Formulation</b>	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		
<b>Please Note:</b> 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.		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below



PREPARATION AND STORAGE	
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**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<sup>+</sup>, CD8<sup>+</sup>, and  $\gamma/\delta$  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.