

DESCRIPTION

Species Reactivity	Mouse
Specificity	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.
Source	Monoclonal Rat IgG _{2A} Clone # 694370
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD161/NK1.1 Val62-Ser220 Accession # P27814
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10 ⁶ cells	Mouse splenocytes

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

KLRB1C, also known as NK1.1, CD161c, 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 γδ 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.

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