

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 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.