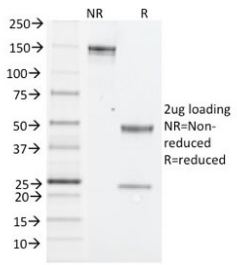
Nk1.1 Antibody / Cd161c [clone PK136] (V8986)

Catalog No.	Formulation	Size
V8986-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8986-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8986SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	PK136
Purity	Protein A/G affinity
UniProt	P27814
Localization	Cell Surface
Applications	Flow Cytometry : 0.5-1ug/million cells in 0.1ml
Limitations	This Nk1.1 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free Nk1.1 antibody (clone PK136) as confirmation of integrity and purity.

Description

Nk1.1 antibody detects the NK1.1 antigen, also known as Klrb1c, encoded by the KLRB1C gene in certain mouse strains. NK1.1 is a type II transmembrane receptor expressed on natural killer (NK) cells and subsets of T cells, where it

participates in immune regulation and cytotoxic responses. Because NK1.1 expression is strain-specific and serves as a hallmark marker for NK cell identification in C57BL/6 and related mice, Nk1.1 antibody is widely used in immunology, oncology, and infectious disease research.

NK1.1 belongs to the C-type lectin-like receptor family and functions in immune recognition and regulation. Its expression provides a reliable surface marker for monitoring NK cell biology in experimental mouse models. Beyond NK cells, NK1.1 is also expressed on subsets of NKT cells, where it contributes to the regulation of cytokine responses and innate-adaptive immune crosstalk. This makes NK1.1 detection a valuable tool in studies of immunosurveillance and tumor immunity.

The Nk1.1 antibody clone PK136 has been widely cited in peer-reviewed studies of NK cell development, immune homeostasis, and antitumor immunity. Clone PK136 provides robust and reproducible detection, making it the standard for identifying NK cells in mouse models. Its applications include flow cytometry, cytotoxicity assays, and immunohistochemistry.

Research using clone PK136 has demonstrated how NK1.1 expression defines NK and NKT subsets involved in viral defense, tumor rejection, and autoimmune regulation. In oncology, detection with this antibody has clarified how NK cells infiltrate tumors and contribute to immune surveillance. In infectious disease, NK1.1 detection has been used to monitor NK cell responses to viral and bacterial pathogens. Its reproducibility ensures reliability across a wide range of immunological contexts.

NSJ Bioreagents provides this Nk1.1 antibody to support immunology, oncology, and infectious disease studies. Alternate designations include KLRB1C antibody, natural killer cell marker antibody, NK cell type II transmembrane receptor antibody, NKR-P1C antibody, and NK lineage surface antigen antibody.

Application Notes

Optimal dilution of the Nk1.1 antibody should be determined by the researcher.

Immunogen

Mouse spleen and bone marrow cells enriched for NK-1+ cells were used as the immunogen for the Nk1.1 antibody.

Storage

Aliquot the Nk1.1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.