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Datasheet for 200-308-N93

NK1.1 Phycoerythrin Antibody

Overview

Description:	Anti-NK1.1 (MOUSE) Phycoerythrin Conjugated Monoclonal Antibody - 200-308-N93
Item No.:	200-308-N93
Size:	200 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Mouse

Product Details

Background:	NK-1.1 surface antigen, also known as CD161b/CD161c and Ly-55, is encoded by the NKR-P1B/NKR-P1C gene. It is expressed on NK cells and NK-T cells in some mouse strains, including C57BL/6, FVB/N, and NZB, but not AKR, BALB/c, CBA/J, C3H, DBA/1, DBA/2, NOD, SJL, and 129. Expression of NKR-P1C antigen has been correlated with lysis of tumor cells in vitro and rejection of bone marrow allografts in vivo. NK-1.1 has also been shown to play a role in NK cell activation, IFN-γ production, and cytotoxic granule release. NK-1.1 and DX5 are commonly used as mouse NK cell markers.
Synonyms:	Killer cell lectin-like receptor subfamily B member 1C, CD161 antigen-like family member C, Lymphocyte antigen 55c, Ly-55c, NK1.1, NKR-P1.9, NKR-P1C, Natural killer cell surface protein P1 -40, NKR-P1 40, CD161c, Klrb1c, Ly55c, Nkrp1c
Host Species:	Mouse
Conjugate:	R-Phycoerythrin (RPE)
Clonality:	Monoclonal
Clone ID:	PK136
Format:	IgG2a
F/P Ratio:	1-2

Target Details

Gene Name:	Klrb1c

Reactivity:	Mouse
Immunogen Type:	Other
Immunogen:	Anti-NK1.1 Antibody (Monoclonal) was produced by repeated immunizations with NK-1+ cells from mouse spleen and bone marrow.
Purity/Specificity:	Phycoerythrin conjugated NK1.1 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse NK1.1. Cross reactivity with NK1.1 from other sources has not been tested. Anti-NK1.1 is conjugated with PE under optimal conditions and the solution is free of unconjugated PE.
Relevant Links:	• UniProtKB - P27814 • NCBI - NP_001153376.1 • GeneID - 17059

Application Details

Tested Applications:	FC
Application Note:	Anti-NK1.1 tested in Flow Cytometry and is useful for Immunohistochemistry, Immunoprecipitation using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 µL/10^6 cells (0.1 µg)
IHC:	User Optimized
IP:	User Optimized

Formulation

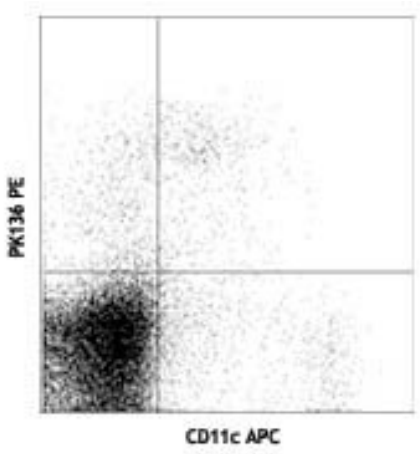
Physical State:	Liquid (sterile filtered)
Concentration:	0.2mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice

Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of anti-NK1.1 Phycoerythrin Conjugated Monoclonal Antibody. Cells: C57BL/6 splenocytes. Stimulation: none. Antibody: CD11c APC and Phycoerythrin Anti-NK1.1 (PK136) antibody.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.