

**Datasheet for 200-302-N93****NK1.1 Fluorescein Antibody****Overview**

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| <b>Description:</b>  | Anti-NK1.1 (MOUSE) Fluorescein Conjugated Monoclonal Antibody - 200-302-N93 |
| <b>Item No.:</b>     | 200-302-N93                                                                 |
| <b>Size:</b>         | 500 µg                                                                      |
| <b>Applications:</b> | FC                                                                          |
| <b>Reactivity:</b>   | Mouse                                                                       |
| <b>Host Species:</b> | Mouse                                                                       |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Background:</b>   | The PK136 antibody is specific for mouse NK1.1, a type II transmembrane lectin-like receptor and member of the killer cell lectin-like receptor (KLR) family. NK1.1 is prominently expressed on natural killer (NK) cells, and is correlated with NK cytotoxic effects toward virus-infected cells and tumor cells. NK1.1 is expressed on subsets of NKT cells in certain mouse strains (C57BL/6, FVB/N, and NZB), yet absent from others (AKR, BALB/c, CBA/J, C3H, DBA/1, DBA/2, NOD, SJL, and 129). Putative subsets of NK cells and their expression of NK1.1 antigen are of continuing interest, including NK1.1+/CD117+ (c-Kit) cells reported to be immunosuppressive for CD8+ T cells in a mechanism involving PD-1 and PD-L1. The PK136 antibody may be used for detection of NK1.1 expression on mouse strains including CE, B6, NZB, C58, Ma/My, ST, SJL, and FVB. The antibody is reported to react with an epitope common to NKR-P1B and NKR-P1C alloantigenic forms of NK1.1. |
| <b>Synonyms:</b>     | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host Species:</b> | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Conjugate:</b>    | Fluorescein (FITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clone ID:</b>     | PK136                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Format:</b>       | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Target Details**

|                            |                                                                                                                                                                                                                                                                                                                                               |
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| <b>Gene Name:</b>          | Klr1c                                                                                                                                                                                                                                                                                                                                         |
| <b>Reactivity:</b>         | Mouse                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen:</b>          | Anti-NK1.1 Antibody (Monoclonal) was produced by repeated immunizations with NK1.1 antigen.                                                                                                                                                                                                                                                   |
| <b>Purity/Specificity:</b> | Fluorescein 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 FITC under optimal conditions and the solution is free of unconjugated FITC. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P27814</a></li><li>• <a href="#">NCBI - NP_001153376.1</a></li><li>• <a href="#">GeneID - 17059</a></li></ul>                                                                                                                                                                 |

## Application Details

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| <b>Tested Applications:</b> | FC                                                                                                                                                                                                                                                                                      |
| <b>Application Note:</b>    | Anti-NK1.1 has been tested by Flow Cytometry and is useful for Immunohistochemistry, Immunoprecipitation, Immunofluorescence using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                         |
| <b>FC:</b>                  | 10 $\mu$ L/10 <sup>6</sup> cells (0.1 $\mu$ g)                                                                                                                                                                                                                                          |
| <b>IF:</b>                  | User Optimized                                                                                                                                                                                                                                                                          |
| <b>IHC:</b>                 | User Optimized                                                                                                                                                                                                                                                                          |
| <b>IP:</b>                  | User Optimized                                                                                                                                                                                                                                                                          |

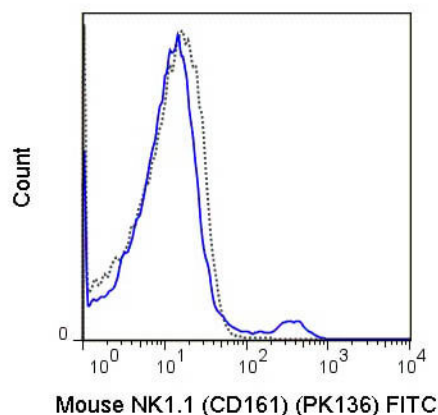
## Formulation

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 0.5 mg/ml by UV absorbance at 280 nm                    |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.09% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | 0.1% Gelatin                                            |

## Shipping & Handling

|                            |                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                           |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive. |
| <b>Expiration:</b>         | Expiration date is six (6) months from date of receipt.                                                                                                                                           |

## Images



### Flow Cytometry

Flow Cytometry of anti-NK1.1 Fluorescein Conjugated Monoclonal Antibody. Cells: C57BL/6 splenocytes. Stimulation: none. Antibody: (Dotted Line) FITC Mouse IgG2a isotype control; (Blue Line) Fluorescein Anti-NK1.1 antibody using 0.5µg.

## 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.