

Mouse NK1.1 Antibody

Purified *in vivo* PLATINUM™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: N268
Clone: PK136
RRID: AB_2831485
Isotype: Mouse IgG2a k
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone PK136 recognizes mouse NK1.1.

Antigen Distribution:

NK-1.1 is encoded by the NKR-P1B/NKR-P1C gene and 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.

Background:

NK1.1 is a type II membrane protein that is part of the C-type lectin superfamily. NK1.1 contains a transmembrane domain and a cytoplasmic domain that are characteristic of C-type lectins. The function of NK cells is to mediate cytotoxicity and to secrete cytokines after immune stimulation. NK1.1 has been correlated with lysis of tumor cells *In vitro* and rejection of bone marrow allografts *In vivo*. It is also involved in NK cell activation, IFN- γ production, and cytotoxic granule release. NK-1.1 is commonly used as a mouse NK cell marker.

Known Reactivity Species:

Mouse

Format:

Purified *in vivo* PLATINUM™ Functional Grade

Immunogen:

NK-1+ cells from mouse spleen and bone marrow

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥98% monomer by analytical SEC, >95% by SDS Page

Endotoxin

<0.5 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles.

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Pathogen Testing

To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's Purified Functional PLATINUM™ antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

Other Applications Reported in Literature:

CyTOF®

Depletion

IP

WB

B

Country of Origin

USA

References

1. Ardolino, M. *et al.* (2018) *J Clin Invest.* 128(10):4654-4668. [PubMed](#)
2. Koo, GC. and Peppard, JR. (1986) *Hybridoma* 3:301