Leinco Technologies, Inc.
excellence in early discovery research™

Mouse NK1.1 Antibody

Purified in vivo GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: I-1193
Clone: HP6043
RRID: AB_2893813
Isotype: Mouse IgG2b
Storage: Sterile 2-8°C

Product Description

Specificity:
This NK1.1 antibody (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 GOLD™ Functional Grade

Immunogen:
NK-1+ cells from mouse spleen and bone marrow

Formulation
This monoclonal NK1.1 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
≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin
< 1.0 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.

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Applications

Applications and Recommended Usage (Quality Tested By Leinco):
Flow Cytometry: The suggested use of this NK1.1 antibody is ≤ 0.25 µg per 10^6 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Other Applications Reported in Literature:
CyTOF® (Validated)
IP
Depletion
Block
IHC
IF (Reported in the literature)

Country of Origin

USA

References

1.) Herrera *et. al.* (2020) *medRxiv* 20184713 Journal Link