

NK1.1 mAb (PK136), InVivoPure+

Endotoxin level ≤ 1 EU/mg

Description:

The NK1.1 monoclonal antibody (clone PK136) was purified from supernatant of HB-191™ PK136 from the ATCC.*

The PK136 monoclonal antibody is a widely used mouse IgG2a antibody that specifically recognizes **NK1.1**, a surface glycoprotein belonging to the NKR-P1 (CD161) family.

This Marker is expressed on NK cells and NKT cells in certain mouse strains including C57BL/6, FVB/N and NZB. Due to its specificity, PK136 is extensively used in immunological research to study NK cell biology, innate immunity, and tumor immunology [1].

The PK136 antibody binds to NKR-P1C (NK1.1) on NK cells and a subset of T cells known as NKT cells in NK1.1-expressing strains. It does not cross-react with NK cells from BALB/c or other NK1.1-negative strains [2,3].

In addition to Flow and IHC, this clone has also been reported to work for in-vitro and in-vivo depletion assays. [4]

This antibody is produced exclusively under serum-free conditions from hybridoma and purified with Protein-A or Protein-G affinity chromatography.

Product-ID:	AK3620P+
Clone:	PK136
Immunogen:	Spleen enriched for NK1+ cells and bone marrow cells from CE mice [1]
Host:	Mouse
Clonality:	Monoclonal
Isotype:	Mouse IgG2a
Formulation:	Clear Liquid, PBS, pH 7.4, 0.2 μ m sterile filtered
Concentration:	≥ 1.00 mg/mL
Purity:	≥ 95 % (CGE, reducing conditions) ≤ 5 % aggregates (analytical SEC)
Endotoxin:	≤ 1 EU/mg (LAL test)
Storage:	2 - 8 °C
Recommended Isotype Control:	Mouse IgG2a κ Isotype Control (AK3399P+)

The product is for research use only and not for use in diagnostic or therapeutic procedures.

***The ATCC trademark and trade name and any and all ATCC catalog numbers are trademarks of the American Type Culture Collection.**

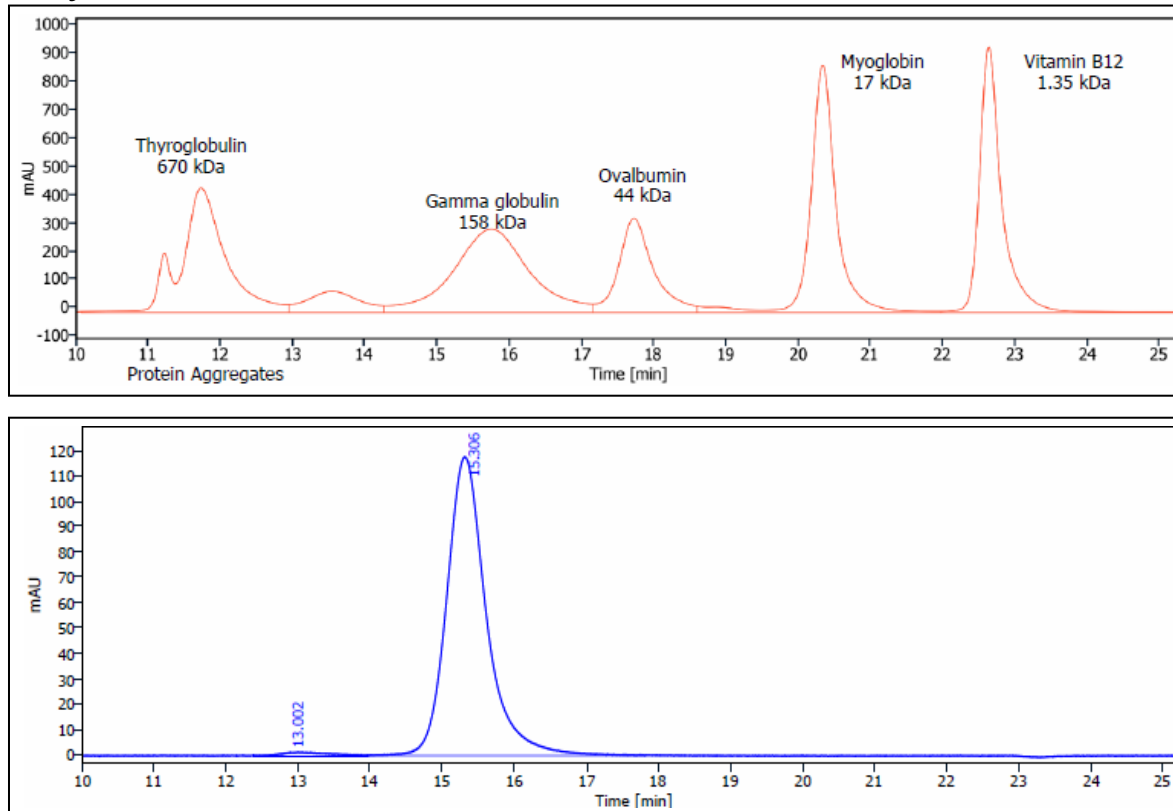
InVivo BioTech Services GmbH is certified to [ISO 9001](#) and [ISO 13485](#).

Literature:

- [1] Koo GC, Peppard JR. Establishment of monoclonal anti-Nk-1.1 antibody. Hybridoma. 1984 Fall;3(3):301-3. doi: 10.1089/hyb.1984.3.301. PMID: 6500587.
- [2] Vicari AP, Zlotnik A. Mouse NK1.1+ T cells: a new family of T cells. Immunol Today. 1996 Feb;17(2):71-6. doi: 10.1016/0167-5699(96)80582-2. PMID: 8808053.
- [3] Carlyle JR, Mesci A, Ljutic B, Belanger S, Tai LH, Rousselle E, Troke AD, Proteau MF, Makrigiannis AP. Molecular and genetic basis for strain-dependent NK1.1 alloreactivity of mouse NK cells. J Immunol. 2006 Jun 15;176(12):7511-24. doi: 10.4049/jimmunol.176.12.7511. PMID: 16751398.
- [4] Mathios D, Park CK, Marcus WD, Alter S, Rhode PR, Jeng EK, Wong HC, Pardoll DM, Lim M. Therapeutic administration of IL-15 superagonist complex ALT-803 leads to long-term survival and durable antitumor immune response in a murine glioblastoma model. Int J Cancer. 2016 Jan 1;138(1):187-94. doi: 10.1002/ijc.29686. Epub 2015 Jul 28. PMID: 26174883; PMCID: PMC4696021.

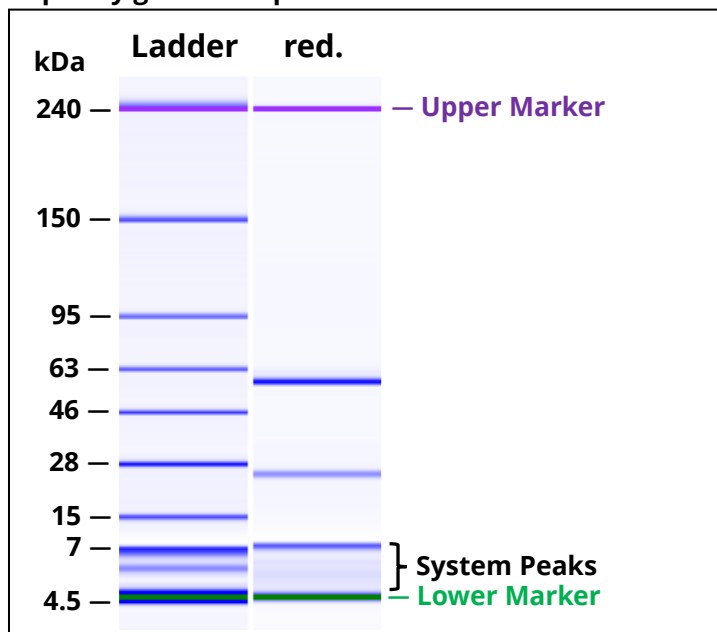
NK1.1 mAb (PK136), InVivoPure+ — Supplementary Data

Analytical SEC:



Analytical SEC of purified protein (blue) in comparison with gel filtration standard (red).

Capillary gel electrophoresis:



CGE of the purified protein under reducing (red.) conditions.