

Biotin Anti-Mouse NK1.1 (CD161) (PK136) Antibody
Catalog # ATB10086**Specification****Biotin Anti-Mouse NK1.1 (CD161) (PK136) Antibody - Product Information**

Application	FC
Isotype	Mouse IgG2a, kappa
Concentration	0.5 mg/mL
Reactivity	Mouse
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2
Host	Mouse

Biotin Anti-Mouse NK1.1 (CD161) (PK136) Antibody - Additional Information

Gene ID	17059
Gene Name	Klrb1c
Alternative Name(s)	
CD161, NKR-P1C, Ly-55	

Format

Biotin

Preparation

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Application Notes

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

Storage Conditions

2-8°C protected from light

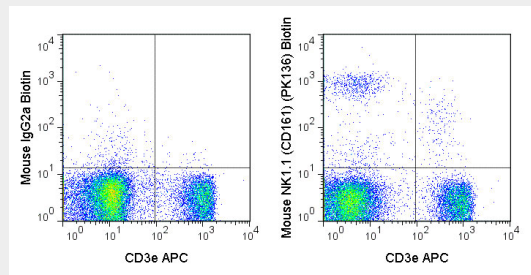
Biotin Anti-Mouse NK1.1 (CD161) (PK136) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

Biotin Anti-Mouse NK1.1 (CD161) (PK136) Antibody - Images



C57Bl/6 splenocytes were stained with APC Anti-Mouse CD3e (20-0031) and 0.25 ug Biotin Anti-Mouse NK1.1 (CD161) (ATB10086) (right panel) or 0.25 ug Biotin Mouse IgG2a isotype control (left panel) followed by Streptavidin PE.

Biotin Anti-Mouse NK1.1 (CD161) (PK136) Antibody - Background

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 (Ehlers et al. 2012. Endocrinology. 10: 1247). 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 (Carlyle et al. 2006. J. Immunol. 176: 7511-7524).