Purified Anti-Mouse CD161/NK1.1 Antibody[PK136], Functional Grade

catalog number: **E-AB-F09870**

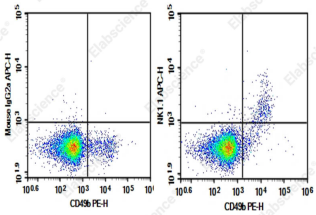
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

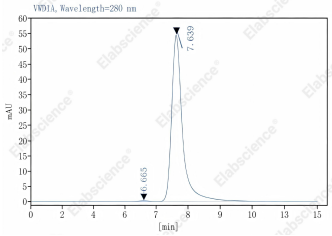
Reactivity	Mouse
Immunogen	Recombinant Mouse NK1.1 protein
Host	Mouse
Isotype	Mouse IgG2a, κ
Clone	PK136
Purification	>98%, Protein A/G purified
Buffer	Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method.

Applications	Recommended Dilution
FCM	≤ 0.2 μg per million cells in 100 μL volume
Depletion	Reported in the literature

Data



C57/BL6 Mouse splenocytes were stained with 0.2 μg APC conjugated Anti-Mouse NK1.1 Antibody[PK136], Functional Grade (Right) and 0.2 μg APC conjugated Mouse IgG2a, κ Isotype Control (Left), followed by anti-Mouse CD49b PE-conjugated Monoclonal Antibody.



Monomer purity ≥95% as determined by analytical size-exclusion chromatography (SEC)

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions.
Shipping	Ice bag

Background

NK-1.1 surface antigen, also known as CD161b/CD161c and Ly-55, is encoded by the NKR-P1B/NKR-P1C gene. It is expressed on NK cells and NK-T cells in some mouse strains, including C57BL/6, FVB/N, and NZB, but not AKR, BAL B/c, CBA/J, C3H, DBA/1, DBA/2, NOD, SJL, and 129. Expression of NKR-P1C antigen has been correlated with lysis of tumor cells in vitro and rejection of bone marrow allografts in vivo. NK-1.1 has also been shown to play a role in NK cell activation, IFN-γ production, and cytotoxic granule release. NK-1.1 and DX5 are commonly used as mouse NK cell markers.

None (Azide-Free,Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

Application References

Kelly D Moynihan,et al,Nat Med. 2016 Dec;22(12):1402-1410. Thibault Griser,et al,Immunity. 2015 Jul 21;43(1):187-99.