Technical Data Sheet

FlowMAb FITC anti-mouse NK1.1

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

Lot Number: **Lot Specific***
Volume: **Lot Specific***
Concentration: **Lot Specific* (generally 4 to 11 mg/ml) ***
Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Product Information

Catalog Number:	**FM0036-FITC**
Clone:	**PK136**
Isotype:	Mouse IgG2a, κ
Conjugation:	FITC
Excitation Source:	Blue 488 nm
Excitation Max:	494 nm
Emission Max:	518 nm
Recommended Isotype Control(s):	FlowMAb FITC mouse IgG2a isotype control, unknown specificity
Immunogen:	Mouse spleen and bone marrow cells enriched for NK1+ cells
Reported Applications:	Flow cytometry
Formulation:	PBS, pH 7.0 Contains 0.09% Sodium Azide
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein A
RRID:	AB_1107737

Description

The PK136 monoclonal antibody reacts with mouse NK1.1, also known as CD161b/CD161c, KLRB1, NKR-P1A, and Ly-55. NK1.1 is a type II integral membrane glycoprotein with a C-type lectin domain and is encoded by the Klrb1c/NKR-P1C gene. NK1.1 plays roles in NK cell activation and differentiation, IFN-γ production, and cytotoxic granule release and is thought to be involved in the generation of Th2 cells. NK1.1 is predominantly expressed as a disulfide-linked homodimer on NK cells; however, it is also expressed on NK-T cells, a rare population of T lymphocytes. The NK-1.1 surface antigen (CD161c) is encoded by the Klrb1c/NKR-P1C gene that is expressed on NK cells of C57BL, FVB/N, and NZB, but not A, AKR, BALB/c, CBA/J, C3H, C57BR, C58, DBA/1, DBA/2, NOD, SJL, and 129 mouse strains. The CD161b antigen, on the other hand, is encoded by the Klrb1b/NKR-P1B gene that is expressed only by Swiss NIH and SJL mouse strains and not by the C57BL/6 mouse strain. Accordingly, the PK136 antibody works for CD161b/CD161c-expressing strains only. This fluorescein isothiocyanate (FITC)-conjugated version of the PK136 antibody is useful for flow cytometry and immunohistochemistry (frozen) applications.

Storage

Store at the stock concentration at 4°C and protected from prolonged exposure to light . **Do not freeze.**

Protocol Information

It is recommended that the reagent be carefully titrated for optimal performance in the assay of interest.

Application References

For a complete list of references, visit https://bioxcell.com/fm0036-fitc?bxcs=9k1b3a#tab_references or scan the QR code

below.

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