Technical Data Sheet
FITC Mouse Anti-Human NKB1

Product Information
Material Number: 555966
Alternate Name: KIR
Size: 100 tests
Vol. per Test: 20 µl
Clone: DX9
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description
Reacts with the killer cell inhibitory receptor (KIR), NKB1, a 70 kDa glycoprotein, member of the Ig superfamily, expressed on a subset of natural killer cells and a small subset of T cells. Expression of NKB1 has been observed to vary among individuals. KIR molecules specifically recognize a certain group of HLA class I antigens. Interaction of NKB1 with specific HLA-B antigen on a target cell inhibits cell mediated cytotoxicity, possibly by delivering a negative signal preventing lymphocyte activation. It is suggested that this MHC class I-KIR interaction works as a regulatory mechanism of NK and T-cell responses to antigenic challenge.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Profile of peripheral blood lymphocytes analyzed by flow cytometry

Preparation and Storage
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes
Application
Flow cytometry Routinely Tested

Suggested Companion Products
Catalog Number Name Size Clone
555748 FITC Mouse IgG1, κ Isotype Control 100 tests MOPC-21
Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Fry AM, Lanier LL, Weiss A. Phosphotyrosines in the killer cell inhibitory receptor motif of NKB1 are required for negative signaling and for association with protein tyrosine phosphatase 1C. J Exp Med. 1996; 184(1):295-300. (Biology)