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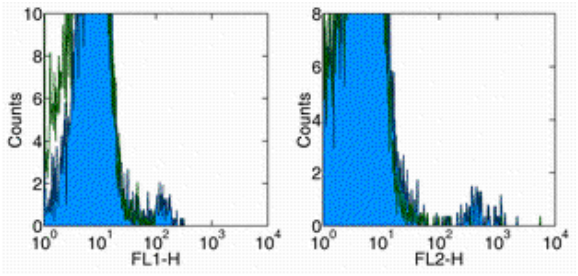
Anti-Human gamma delta TCR Purified

Catalog Number: 14-9959

RUO: For Research Use Only. Not for use in diagnostic procedures.



Surface staining of normal human peripheral blood cells with Anti-Human gamma delta TCR FITC (left) or PE (right). Appropriate isotype controls were used (open histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human gamma delta TCR Purified

REF **Catalog Number:** 14-9959

Clone: B1.1

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

Use By: Refer to Vial

Description

The B1.1 monoclonal antibody reacts with the human gamma delta TCR complex. The gamma delta TCR is expressed by a small subset of T cells in the thymus, peripheral lymphoid tissues, intestinal epithelium, and epidermis. The exact specificity, ligand and function of gamma delta TCR-bearing T cells are not yet fully understood; it is suggested that these cells recognize bacterial ligands and some tumor cells in the context of MHC class I-like gene products and play a role in regulation of the immune response and during bacterial infection. This monoclonal can be used as a phenotypic marker for gamma delta TCR-expressing T cells.

Applications Reported

The B1.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The B1.1 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Nick, S., P. Pileri, et al. 1995. T cell receptor gamma delta repertoire is skewed in cerebrospinal fluid of multiple sclerosis patients: molecular and functional analyses of antigen-reactive gamma delta clones. Eur J Immunol 25(2): 355-63.

Merlo, A., L. Filgueira, et al. 1993. T-cell receptor V-gene usage in neoplasms of the central nervous system. A comparative analysis in cultured tumor infiltrating and peripheral blood T cells. J Neurosurg 78(4): 630-7.

Deetz CO, Hebbeler AM, et al. 2006. Gamma interferon secretion by human Vgamma2Vdelta2 T cells after stimulation with antibody against the T-cell receptor plus the Toll-Like receptor 2 agonist Pam3Cys. Infect Immun. 74(8):4505-11. (**B1.1**, FA, PubMed)

Related Products

11-4011 Anti-Mouse IgG FITC

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)

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