Monoclonal Anti-mouse IFN-γ R1-PE

Catalog Number: FAB1026P
Lot Number: ABDP01
100 Tests

Reagents Provided

Phycoerythrin (PE)-conjugated hamster monoclonal anti-mouse IFN-γ R1: Supplied as 25 μg of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Clone #: 2E2.4

Isotype: hamster IgG

Reagents Not Provided

- Flow Cytometry Staining Buffer (Catalog # FC001) or other BSA-supplemented saline buffer.

Storage

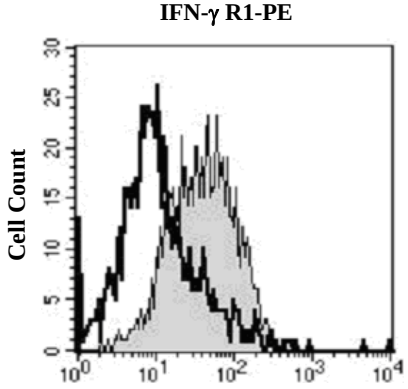
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing IFN-γ R1 within a population and qualitatively determine the density of IFN-γ R1 on cell surfaces by flow cytometry.

Product Description

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from an Armenian hamster immunized with purified recombinant mouse Interferon gamma Receptor 1 (rmIFN-γ R1) extracellular domain. The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to PE fluorochrome. Cell surface expression of IFN-γ R1 is determined by flow cytometry using 488 nm wavelength excitation and monitoring emitted fluorescence with a detector optimized to collect peak emissions at 565 - 605 nm.



CD11b positive mouse splenocytes were stained with PE-conjugated anti-mouse IFN-γ R1 (Catalog # FAB1026P, filled histogram) or isotype control (open histogram).

Background Information

Interferon gamma Receptor 1 (IFN-γ R1) is a transmembrane protein that associates with IFN-γ R2 to form the high affinity IFN-γ receptor complex. IFN-γ R1 is widely expressed and is the ligand binding component of the complex.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using CD11b positive mouse splenocytes.

1. Cells may be Fc-blocked with 1 μg of mouse IgG/10^5 cells for 15 minutes at room temperature. Do not wash excess blocking IgG from this reaction.
2. After blocking, 10 μL of conjugated antibody was added to 1 - 2.5 x 10^5 cells and incubated for 30 minutes at room temperature.
3. Unbound antibody was removed by washing the cells twice in Flow Cytometry Staining Buffer (Catalog # FC001). Note that whole blood requires a RBC lysis step at this point using Flow Cytometry Mouse Lyse Buffer (Catalog # FC003).
4. The cells were resuspended in Flow Cytometry Staining Buffer for final flow cytometric analysis. As a control for this analysis, cells in a separate tube should be treated with PE-labeled hamster IgG antibody. This procedure may need to be modified, depending upon cell type and final utilization. Individual users may need to titrate to determine the optimal reagent amount for their specific use.

Warning: Contains sodium azide as a preservative - sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.

R&D Systems Inc.
1-800-343-7475