

Monoclonal Anti-human IFN- α/β R1-PerCP

Catalog Number: FAB245C

Lot Number: ACRY02

100 Tests

Reagents Provided

PerCP-conjugated mouse monoclonal anti-human IFN- α/β R1:

Supplied as 25 μ g of antibody in 1 mL saline containing up to 0.5% BSA and 0.09% sodium azide.

Clone #: 85228

Isotype: mouse IgG₁

Reagents Not Provided

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

Storage

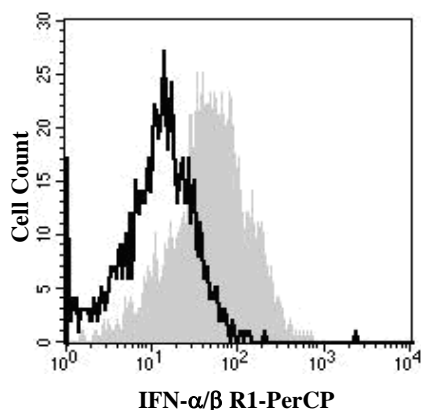
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2-8 °C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing IFN- α/β R1 within a population and qualitatively determine the density of IFN- α/β 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 a mouse immunized with purified, Sf 21-derived, recombinant human IFN- α/β R1 extracellular domain (rhIFN- α/β R1; aa 28-436; Accession # P17181). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to PerCP fluorochrome. Cell surface expression of IFN- α/β R1 is determined by flow cytometry. PerCP has a maximum absorption of 482 nm and 564 nm and a maximum emission of 675 nm.



Human whole blood monocytes were stained with PerCP-conjugated anti-human IFN- α/β R1 (Catalog # FAB245C, filled histogram) or PerCP-conjugated isotype control (Catalog # IC002C, open histogram).

Background Information

Type I interferons (IFN- α , IFN- β , IFN- ω) bind to the type I IFN receptor, also called the IFN α/β receptor. This receptor is composed of 2 chains, IFN- α/β R1 and R2.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using whole blood monocytes.

- Cells may be Fc-blocked with 1 μ g of human IgG/10⁵ cells for 15 minutes at room temperature. Do not wash excess blocking IgG from this reaction.
- After blocking, 10 μ L of conjugated antibody was added to up to 1 x 10⁶ cells and incubated for 30 minutes at room temperature.
- 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 Human Lyse Buffer (Catalog # FC002).
- 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 PerCP-labeled mouse IgG₁ antibody. This procedure may need to be modified, depending upon the 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.

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