Polyclonal
Anti-human IFN-γ R2-Fluorescein

Catalog Number: FAB773F
Lot Number: AAZZ01
100 Tests

Reagents Provided

Carboxyfluorescein (CFS)-conjugated goat polyclonal anti-human IFN-γ R2: Supplied as 50 μg of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Isotype: goat IgG

Reagents Not Provided

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

Storage

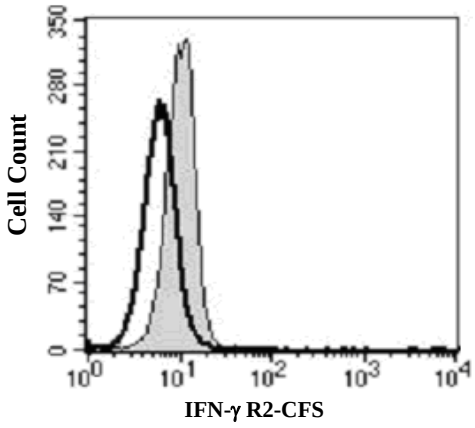
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing IFN-γ R2 within a population and qualitatively determine the density of IFN-γ R2 on cell surfaces by flow cytometry.

Product Description

Produced in goats immunized with purified, NS0-derived, recombinant human interferon gamma receptor 2 (rhIFN-γ R2) extracellular domain. IFN-γ R2 specific IgG was purified by human IFN-γ R2 affinity chromatography. The purified antibody was then conjugated to CFS fluorochrome. Cell surface expression of IFN-γ R2 is determined by flow cytometry using 488 nm wavelength excitation and monitoring emitted fluorescence with a detector optimized to collect peak emissions at 515 - 545 nm.



Human granulocytes were stained with CFS-conjugated anti-human IFN-γ R2 (Catalog # FAB773F, filled histogram) or isotype control (Catalog # IC108F, open histogram).

Background Information

Interferon gamma Receptor 2 (IFN-γ R2) is a type II transmembrane protein that associates with IFN-γ R1 to form a high affinity receptor complex for IFN-γ. IFN-γ R2 is required for signal transduction but does not bind IFN-γ by itself.

Flow Cytometry Validation

This antibody was tested for flow cytometry using human granulocytes.

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 analysis by flow cytometry. As a control for this analysis, cells in a separate tube should be treated with CFS-labeled goat IgG antibody. This procedure may need to be modified, depending upon cell type and final utilization. Individual users may need to titrate to determine 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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