Polyclonal
Anti-mouse IL-23 R-Phycoerythrin

Catalog Number: FAB1686P
Lot Number: ABTX01
100 Tests

Reagents Provided

Phycoerythrin (PE)-conjugated goat polyclonal anti-mouse IL-23 R: 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

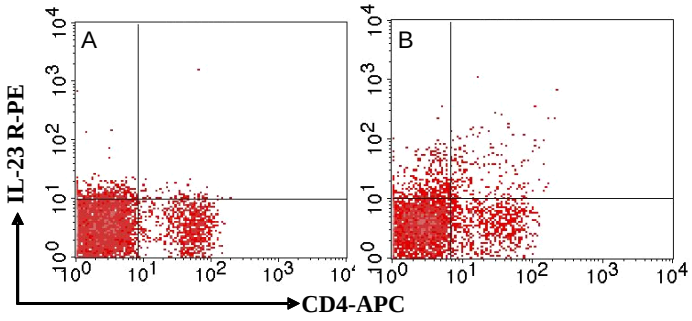
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing IL-23 R within a population and qualitatively determine the density of IL-23 R on cell surfaces by flow cytometry.

Product Description

This antibody was produced in goats immunized with purified, NS0-derived, recombinant mouse IL-23 R extracellular domain. Mouse IL-23 R specific IgG was purified by mIL-23 R affinity chromatography. The purified antibody was then conjugated to PE fluorochrome. Cell surface expression of IL-23 R 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.



Mouse splenocytes, unstimulated (A) or stimulated overnight with PMA/ionomycin/IL-23/LPS to induce Th17 development (B), were stained with PE-conjugated anti-mouse IL-23 R (Catalog # FAB1686P) and APC-conjugated CD4 (Catalog # FAB554A). Dot plots were gated on lymphocytes and quadrant markers were set based upon isotype control staining.

Background Information

Interleukin 23 Receptor (IL-23 R) is an IL-23 specific binding protein that associates with IL-12 Rβ1 to form a functional heterodimeric receptor complex. This complex mediates biological activities that are similar to, but distinct from, those induced by IL-12. IL-23 R is expressed by Th17, Th1, and NK cells.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using 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 up to 1 x 10^6 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 goat IgG 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.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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