

Monoclonal Anti-human IL-17 RC-APC

Catalog Number: FAB22691A

Lot Number: ABAH01

100 Tests

Reagents Provided

Allophycocyanin (APC)-conjugated mouse monoclonal anti-human IL-17 RC: Supplied as 10 µg of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Clone #: 309822

Isotype: mouse IgG_{2b}

Reagents Not Provided

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

Storage

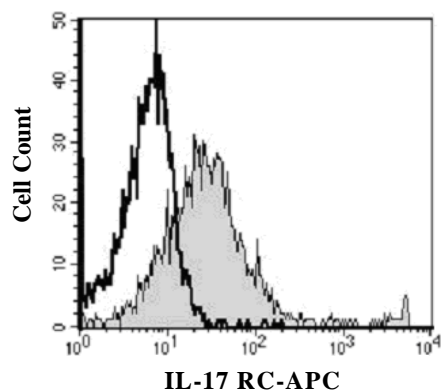
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing IL-17 RC within a population and qualitatively determine the density of IL-17 RC 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, NS0-derived, recombinant human IL-17 RC (rhIL-17 RC; aa 21 - 454; Accession # AAH06411). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to APC fluorochrome. Cell surface expression of IL-17 RC is determined by flow cytometry using 620 - 650 nm wavelength excitation and monitoring emitted fluorescence with a detector optimized to collect peak emissions at 660 - 670 nm.



K562 cells were stained with APC-conjugated anti-human IL-17 RC (Catalog # FAB22691A, filled histogram) or isotype control (Catalog # IC0041A, open histogram).

Background Information

Interleukin 17 Receptor C (IL-17 RC), also called IL-17 RL, is a type I transmembrane protein that is one of five known members of the IL-17 receptor family. IL-17 RC is a single-transmembrane glycoprotein with potential phosphorylation sites in the cytoplasmic tail. At least four isoforms exist. The extracellular region of isoform # 3 shows 69% amino acid identity to the equivalent region in mouse IL-17 RC. The receptor has a general expression pattern, but apparently is not present in peripheral blood cells. In prostate tumors, it is preferentially expressed in stromal elements. Soluble forms may be produced.

Flow Cytometry Validation

This antibody was tested for flow cytometry using K562 cells.

- Cells may be Fc-blocked with 1 µg of human IgG/10⁵ cells for 15 minutes at room temperature. Do not wash excess blocking IgG from this reaction.
- After blocking, 10 µL of conjugated antibody was added to 1 - 2.5 x 10⁵ 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 analysis by flow cytometry. As a control for this analysis, cells in a separate tube should be treated with APC-labeled mouse IgG_{2b} 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.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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