

Monoclonal Anti-human/rat CCR3-APC

Catalog Number: FAB155A

Lot Number: LQR06

100 Tests

Reagents Provided

Allophycocyanin (APC)-conjugated rat monoclonal anti-human/rat CCR3: Supplied as 10 µg of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Clone #: 61828

Isotype: rat IgG_{2A}

Reagents Not Provided

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

Storage

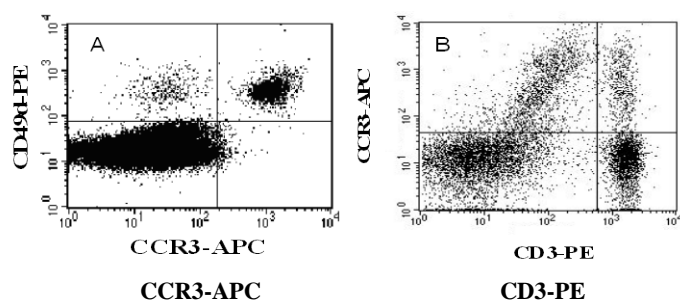
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing CCR3 within a population and qualitatively determine the density of CCR3 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 rat immunized with Y3 cells transfected with hCCR3. 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 CCR3 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.



A) Human peripheral blood neutrophils were stained with APC-conjugated anti-human/rat CCR3 (Catalog # FAB155A) and PE-conjugated anti-human CD49d (Catalog # FAB1354P). Cells in the double-stained population are eosinophils.

B) Rat splenocytes were stained with APC-conjugated anti-human/rat CCR3 (Catalog # FAB155A) and PE-conjugated anti-rat CD3. Quadrant markers were set based on isotype control staining (Catalog # IC006A).

Background Information

CCR3 is a G-protein linked seven transmembrane chemokine receptor that preferentially binds eotaxin and eotaxin-2.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using hCCR3-transfected Y3 cells, human peripheral blood cells, and rat splenocytes.

- Cells may be Fc-blocked with 1 µg of human or rat 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 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 APC-labeled rat IgG_{2A} 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.