

Monoclonal Anti-mouse CCR10-PerCP

Catalog Number: FAB2815C

Lot Number: ABAX01

100 Tests

Reagents Provided

Peridinin-Chlorophyll-Protein-Complex (PerCP)-conjugated rat monoclonal anti-mouse CCR10: Supplied as 25 µg of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Clone #: 248918

Isotype: rat IgG_{2B}

Reagents Not Provided

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

Storage

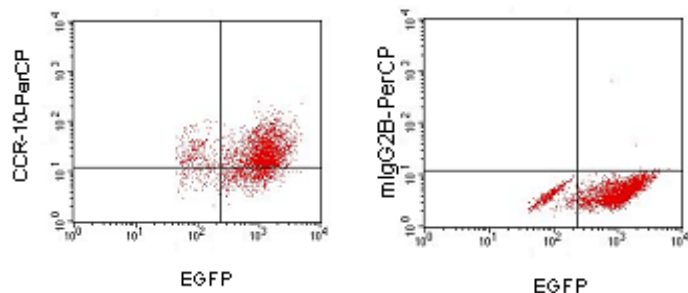
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing CCR10 within a population and qualitatively determine the density of CCR10 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 C6 cells transfected with mouse CCR10. 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 CCR10 is determined by flow cytometry. PerCP has a maximum absorption of 482 nm and 564 nm and a maximum emission of 675 nm.



Baf3 transfected cells containing an EGFP tag were stained with PerCP-conjugated anti-mouse CCR10 (Catalog # FAB2815C, left) or isotype control (Catalog # IC013C, right).

Background Information

CCR10 is a G protein-linked seven transmembrane domain protein, expressed by T cells and B cell subsets that functions as a receptor for CCL27. CCR10 mediates lymphocyte migration to the skin and mucosa, and its expression correlates with the metastatic capacity of melanomas.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using Baf3 transfected cells.

- Cells may be Fc-blocked with 1 µg of mouse 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 Mouse Lyse Buffer (Catalog # FC003).
- The cells were resuspended in Flow Cytometry Staining Buffer for final analysis by flow cytometry. As a control for this analysis, cells in a separate tube should be treated with PerCP-labeled rat 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.