Polyclonal
Anti-mouse Dectin-2α-APC

Catalog Number: FAB1525A
Lot Number: ABLM01
100 Tests

Reagents Provided

Allophycocyanin (APC)-conjugated goat polyclonal anti-mouse Dectin-2α: Supplied as 10 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

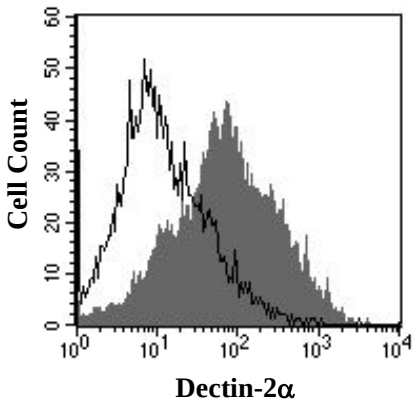
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing Dectin-2α within a population and qualitatively determine the density of Dectin-2α on cell surfaces by flow cytometry.

Product Description

Produced in goats immunized with purified, NS0-derived, recombinant mouse Dendritic Cell (DC)-associated C-Type (Ca^{2+}-dependent, carbohydrate recognition domain) lectin-2α (rmDectin-2α; aa 43 - 209) extracellular domain. Mouse Dectin-2α specific IgG was purified by mouse Dectin-2α affinity chromatography. The purified antibody was then conjugated to APC fluorochrome. Cell surface expression of Dectin-2α 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.



Mouse bone marrow-derived dendritic cells were stained with APC-conjugated anti-mouse Dectin-2α (Catalog # FAB1525A, filled histogram) or isotype control (Catalog # IC108A, open histogram).

Background Information

Dectin-2α is a Type II transmembrane protein belonging to the C-Type lectin superfamily and is designated CLECSF10. At least 2 truncated isoforms (2β and 2γ) exist as a result of alternative splicing.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using mouse bone marrow-derived dendritic cells.

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 APC-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.

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