Monoclonal Anti-human CD96v2-APC

Catalog Number: FAB6199A
Lot Number: ABMP01
100 Tests

Reagents Provided

Allophycocyanin (APC)-conjugated mouse monoclonal anti-human CD96v2: Supplied as 10 μg of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Clone #: 628211

Isotype: mouse IgG_1

Reagents Not Provided

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

Storage

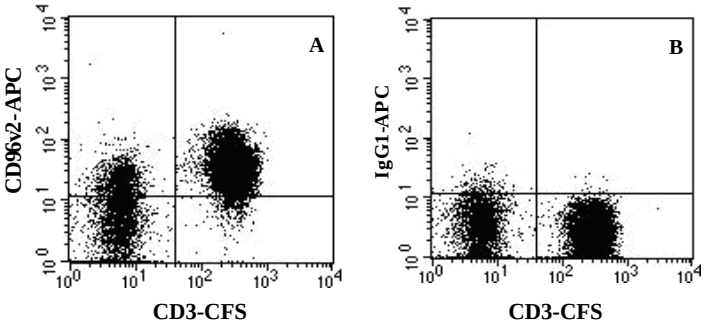
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing CD96v2 within a population and qualitatively determine the density of CD96v2 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 CD96v2 (rhCD96v2; aa 1 - 501). 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 CD96v2 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.



PBMC lymphocytes were stained with A) APC-conjugated anti-human CD96v2 (Catalog # FAB6199A) or B) APC-conjugated mouse isotype control (Catalog # IC002A), and CFS-conjugated anti-human CD3 (Catalog # FAB100F).

Background Information

CD96 (also known as TACTILE) is a cell surface adhesion molecule expressed on T cells, NK cells, and a subpopulation of B cells. It binds CD155 and Nectin-1, and is a tumor marker for acute myeloid leukemia. Human CD96 may be expressed in two splice variants, variant 2 (CD96v2) is the predominantly expressed isoform.[1]

Reference

1. Meyer, D, *et al.* (2009) J. Biol. Chem. **284**:2235.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using PBMC lymphocytes.

1. Cells may be Fc-blocked with 1 μg of human 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 Human Lyse Buffer (Catalog # FC002).
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 mouse IgG_1 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.

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