

Monoclonal Anti-human CLEC-1-Alexa Fluor® 488

Catalog Number: FAB17041G
Lot Number: ACHZ01
100 Tests

Reagents Provided

Alexa Fluor® 488-conjugated mouse monoclonal anti-human CLEC-1:
Supplied as 25 µg of antibody in 0.5 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Clone #: 685316

Isotype: mouse IgG_{2B}

Reagents Not Provided

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

Storage

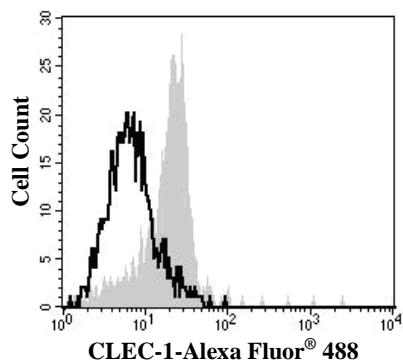
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

Intended Use

Designed to quantitatively determine the percentage of cells bearing CLEC-1 within a population and qualitatively determine the density of CLEC-1 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 C-type Lectin-like Receptor-1 (rhCLEC-1) extracellular domain. The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to Alexa Fluor® 488 fluorochrome. Cell surface expression of CLEC-1 is determined by flow cytometry using 488 nm wavelength excitation and monitoring emitted fluorescence with a detector optimized to collect peak emissions at 515 - 545 nm.



Human whole blood monocytes were stained with Alexa Fluor® 488-conjugated anti-human CLEC-1 (Catalog # FAB17041G, filled histogram) or Alexa Fluor® 488-conjugated isotype control (Catalog # IC0041G, open histogram).

Background Information

CLEC-1 is a type II transmembrane protein that has a single carbohydrate recognition domain (CRD) in its C-terminal extracellular domain. It is transcribed from the NK gene complex and is expressed in dendritic cells, monocytes/macrophages, and endothelial cells.

Flow Cytometry Validation

This antibody has been tested for flow cytometry using human whole blood monocytes.

- 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 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 Alexa Fluor® 488-labeled mouse IgG_{2B} 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.

Legal

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