

# Monoclonal Anti-human DEC-205-PerCP

Catalog Number: FAB2047C Lot Number: ABDS01

100 Tests

### **Reagents Provided**

Peridinin-Chlorophyll-Protein-Complex (PerCP)-conjugated mouse monoclonal anti-human DEC-205: Supplied as 10  $\mu g$  of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

Clone #: 523203 Isotype: mouse IgG,

## **Reagents Not Provided**

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

## **Storage**

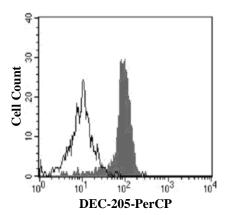
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at  $2^{\circ}$  -  $8^{\circ}$  C.

#### Intended Use

Designed to quantitatively determine the percentage of cells bearing DEC-205 within a population and qualitatively determine the density of DEC-205 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, *E. coli*-derived, recombinant human DEC-205 (rhDEC-205; aa 216 - 501; Accession # O60449). 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 DEC-205 is determined by flow cytometry. PerCP has a maximum absorption of 482 nm and 564 nm and a maximum emission of 675 nm.



Human monocytes were stained with PerCP-conjugated anti-human DEC-205 (Catalog # FAB2047C, filled histogram) or isotype control (Catalog # IC002C, open histogram).

## **Background Information**

DEC-205, also known as CD205 and lymphocyte antigen 75 (Ly 75), is a type I transmembrane protein that is primarily expressed on dendritic cells and thymic epithelial cells. The extracellular region of DEC-205 contains ten C-type lectin-like domains, a fibronectin type II domain and a ricin B-type lectin domain. DEC-205 functions as an endocytic receptor for antigens. The recombinant protein used to generate the antihuman DEC-205 antibody contains the first two C-type lectin domains.

## Flow Cytometry Validation

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

- 1. Cells may be Fc-blocked with 1  $\mu g$  of human  $lgG/10^5$  cells for 15 minutes at room temperature. Do not wash excess blocking lgG from this reaction.
- 2. After blocking, 10  $\mu$ L of conjugated antibody was added to 1 2.5 x 10 $^{5}$  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).
- 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 PerCP-labeled mouse IgG₁ 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.