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## PRODUCT INFORMATION

### Mouse Anti-Human CD1a-PE-Cy5-conjugate

**Cat#** CD01APC-100 **Size** 100 Tests  
**Cat#** CD01APC-25 **Size** 25 Tests

**CLONE:** HI149  
**ISOTYPE:** Mouse IgG1,  $\kappa$   
**WS.No.:** V5T CD01.01  
**Product Forms:** Purified unlabeled, PE conjugation, PE-Cy5 conjugation

#### DESCRIPTION

CD1a McAb recognizes a 49 KD polypeptide associated with  $\beta$ 2-microglobulin ( $\beta_2m$ ) expressed on cortical thymocytes (strongly), langerhans cells, dendritic cells, some T cell leukemias and lymphomas. CD1a McAb does not react with peripheral blood T and B lymphocytes, monocytes, granulocytes, platelets and erythrocytes. CD1a antigen has specialized role in presentation of lipid antigens.

#### PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with R-PE under optimum conditions.

#### USAGE

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis and is tested for immunohistochemical staining of acetone-fixed frozen sections. The conjugated reagent (R-PE) is tested for flow cytometric analysis using  $20\mu\text{l}/10^6$  cells or  $100\mu\text{l}$  peripheral blood cells.

#### STORAGE

For purified forms, long term storage at  $-20^{\circ}\text{C}$ .  
For conjugated forms, storage at  $4^{\circ}\text{C}$ , should not be frozen and avoid prolonged exposure to light.

#### REFERENCES

1. Shen DC., She M., Zhang JX., et al., 1993. Preparation, identification and preliminary application of McAb HI149 against CD1a different epitope. J. of Monoclonal Antibody. 9(2):45
2. Schlossman S., L. Bloumsell, W. Gilks, et al., eds. 1995. Leucocyte Typing □: White Cell Differentiation Antigens. P: 245, 260 Oxford University Press, New York.

Rev. 80609A

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