

**Mouse Anti-Human CD15-PE conjugate**

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| <b>Catalog#</b> | <b>CD15P-100</b> | <b>Size</b> | <b>100 tests</b> |
| <b>Catalog#</b> | <b>CD15P-25</b>  | <b>Size</b> | <b>25 tests</b>  |

**PRODUCT INFORMATION**

**CLONE:** HI98  
**ISOTYPE:** Mouse IgM, κ  
**WS.No.:** IV M141  
**Product Forms:** Purified, FITC conjugation, PE conjugation, PE-Cy5 conjugation.

**DESCRIPTION**

CD15 McAb recognizes a 220KD carbohydrate antigen—Lacto—N—fucopentaose □, also called lewis X, X-hapten, SSEA-□. CD15 antigen is expressed highly on mature granulocytes and monocytes (weakly) and on immature bone marrow cells of myelomonocytic lineage and weakly on peripheral blood T lymphocytes as well as on some T-cell lines. CD15 antigen is also expressed on leukemia cells of myelomonocytic origin, and occasionally on lymphocytic leukemia cells. Furthermore CD15 is present on langerhans cells and on a variety of carcinoma cells (preferentially adenocarcinomas), but is absent on B lymphocytes, erythrocytes and platelets. There is soluble form of CD15 in serum (plasm) besides membrane form of CD15. CD15 antigen plays a role in mediating phagocytosis, bactericidal activity and chemotaxis. Such as McAbs HIM4 and HIM5 can inhibit granulocyte phagocytosis. HIM5 antibody remarkably decreased PMA-stimulated superoxide production, but HIM4 only decreased a little, showing they have significantly different affects on superoxide production of granulocytes. HIM35 McAb not only can inhibit granulocyte phagocytosis, but also synergistically stimulating hematopoiesis.

**PREPARATION**

The monoclonal antibody is purified from ascites by hydroxyapatite chromatography and is conjugated with FITC, R-PE, PE-Cy5 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 and formalin—fixed paraffin sections.

The conjugated reagent (FITC, R-PE) is tested for flow cytometric analysis using 20µl/10<sup>6</sup> cells or 100µl peripheral blood cells.

The conjugated reagent (PE-Cy5) is tested for flow cytometric analysis using 10µl/10<sup>6</sup> cells or 100µl peripheral blood cells.

**STORAGE**

For purified forms, long term storage at -20oC.

For conjugated forms, storage at 4oC, should not be frozen and avoid prolonged exposure to light.

**REFERENCES**

1. Shen DC., Chen Z., Jing YG., et al., 1989. HI98- an anti- myelomonocytic cell monoclonal antibody: production, identification and preliminary application. J. Hematol, 10(7): 350
2. Guan Q., Tang MH., Shen DC., et al., 1993. Functional studies of HIM4 and HIM5 monoclonal antibodies. Tissue Antigens. 42(4):365
3. Yang XF., Shen DC., Guan Q., et al., HIM35: a monoclonal antibody synergistically stimulating hematopoiesis. Tissue Antigens. 42(4):387
4. Yang L., Fa XG., 2001. The regulation of NADPH oxidase in human Np by McAb HIM70. 7(3):375
5. Knapp W., B.Dorken, E.P.Rieber, et al., eds. 1989. Leucocyte Typing □: White Cell Differentiation Antigens. P: 798, 1078 Oxford University Press, New York.