Mouse Anti Human CD15 PE

PRODUCT INFORMATION

CLONE: HI98

ISOTYPE: Mouse IgM, κ

WS.No.: IV M141

CATALOG#: A6303/A6313

CONTENTS: RPE conjugated antibody in 10mM PBS (pH 7.0) with 0.05% NaN_3 and 1% BSA.

DESCRIPTION

CD15 McAb recognizes a 220KD carbohydrate antigen–Lacto–N–fucopentaose Ⅲ, also called lewis X, X-hapten, SSEA-Ⅰ. 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.

PREPARATION

The monoclonal antibody is purified from ascites by hydroxyapatite chromatography and is conjugated with RPE under optimum conditions.

USAGE

The RPE conjugation is tested for flow cytometric analysis using 20μl/10^6 cells or 100μl peripheral blood cells.

STORAGE

Store at 4℃, 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 Ⅳ: White Cell Differentiation Antigens. P：798，1078 Oxford University Press, New York.

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