ALPHA DIAGNOSTIC INTERNATIONAL

LIFE TECH Life Technologies™ Your Molecular & Cell Technology Partner

Mouse Anti-Human CD15-PE conjugate

Catalog# CD15P-100 Size 100 tests
Catalog# CD15P-25 Size 25 tests

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

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, San Antonio, TX 78244, USA; **Email**: service@4adi.com

India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com