

Mouse Anti Human CD20 PE

PRODUCT INFORMATION

CLONE: HI47
ISOTYPE: Mouse IgG3, κ
WS.No.: IV B104
CATALOG#: A7223/A7233
CONTENTS: R-PE conjugated antibody buffered in 10mM PBS (pH 7.2) with 0.05% NaN₃ and 1% BSA.

DESCRIPTION

CD20 McAb recognizes a 33-37 KD type III unglycosylated phosphoprotein which crosses the cell membrane four times called TM4. CD20 antigen is expressed on pre-B cells, resting/activated B cells and corresponding neoplastic B cells, but is absent from plasma cells. The reactivity of HI47 McAb has a bit wide including some dendritic cells, endothelial cells on vessel, epithelial cells, some macrophages and some activated T cells. HI47 antigen is present on 8-16% of normal peripheral blood lymphocytes. CD20 functions the regulation of B lymphocyte activation and proliferation. HI47 McAb is a kind of inhibitory antibody.

PREPARATION

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

USAGE

The R-PE conjugation is tested for flow cytometric analysis using 20 μ l/10⁶ cells or 100 μ l peripheral blood cells.

STORAGE

Store at 4°C, should not be frozen and avoid prolonged exposure to light.

REFERENCES

1. Yang XF., Shen DC., Jin YG., et al., 1990. Preparation and characterization of a monoclonal antibody HI47 direct to human B lymphocyte. Shanghai J. of Immunology. 10(2):65
2. Yang XF., Shen DC., Chen Z., et al., 1991. Effect of HI47(CD20) monoclonal antibody on human B lymphocyte activation and proliferation. Chinese J. of Immunology. 7(1):21
3. Knapp W., B.Dorken, E.P.Rieber, et al., eds. 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. P: 21、46-50 Oxford University Press, New York.
4. Schlossman S., L.Bloumsell, W.Gilks, et al., eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. P: 491 Oxford University Press, New York.

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