
Mouse Anti-Human CD8-PE-Cy5-conjugate

Catalog # **CD08PC-100** Size 100 tests
Catalog # **CD08PC-25** Size 25 tests

PRODUCT INFORMATION

CLONE: HIT8a
ISOTYPE: Mouse IgG1, κ
WS.No.: V5T CD08.10
Product Forms: Purified, FITC conjugation, PE conjugation.

DESCRIPTION

CD8 McAb recognizes CD8 antigen which is 68 KD type I transmembrane glycoprotein, and consists of two disulfide-linked chains that form either as α/α homodimers or α/β heterodimers. The most CD8 antigen is CD8 α/β heterodimer expressed mainly on 13-48% (about one-third of peripheral T cells) of peripheral blood lymphocytes-suppressor/cytotoxic T lymphocytes (Ts/Tc) and 70-80% of thymocytes. In addition, a proportion of $\gamma\delta$ T cells and NK cells express CD8 $\alpha\alpha$ homodimers. CD8 α can form homodimers, but CD8 β cannot. CD8 β requires the presence of CD8 α to be expressed on the cell surface. CD8 antigen is coreceptor for HLA class I molecule.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC, 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 and formalin-fixed paraffin sections.

The conjugated reagent (FITC, R-PE) is tested for flow cytometric analysis using 20 μ l/10⁶ cells or 100 μ l peripheral blood cells.

STORAGE

For purified forms, long term storage at -20 $^{\circ}$ C.

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

REFERENCES

1. Shen DC., Chen Z., Bai JF., et al., 1990. Different epitopes in CD8 antigen defined with two monoclonal antibodies HIT8a and HIT8b. Shanghai J. of Immunology. 10(3):147
2. Yang CY., She M., Shen DC., et al., 1993. Preparation of A group CD8 monoclonal antibodies. J. of Monoclonal Antibody. 9(4):42
3. Schlossman S., L. Bloumsell, W. Gilks, et al., eds. 1995. Leucocyte Typing \square : White Cell Differentiation Antigens. P: 247 , 353—356 Oxford University Press, New York.

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