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## 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,  $\kappa$   
**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  $\alpha/\alpha$  homodimers or  $\alpha/\beta$  heterodimers. The most CD8 antigen is CD8 $\alpha/\beta$  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 $\alpha$  can form homodimers, but CD8 $\beta$  cannot. CD8 $\beta$  requires the presence of CD8 $\alpha$  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 $\mu$ l/10<sup>6</sup> cells or 100 $\mu$ 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.