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**Mouse Anti-Human CD4-PE-Cy5-conjugate**

**Catalog #**    **CD04PC-100**    **SIZE:** 100 Tests  
**Catalog #**    **CD04PC-25**        **SIZE:** 25 Tests

**PRODUCT INFORMATION**

**CLONE:**            HIT4a  
**ISOTYPE:**        Mouse IgG2b,  $\kappa$   
**WS.No.:**         5T CD04.08, 6T-001  
**OTHER RECOMMENDED CLONE:**            HIT4c, Mouse IgG2b

**Product Forms:** Purified, FITC conjugation, PE conjugation, PE-Cy5 conjugation.

**DESCRIPTION**

CD4 McAb recognizes a 55 KD type  $\alpha$  single-chain transmembrane glycoprotein. CD4 antigen is a coreceptor for HLA class II molecule and HIV (human immunodeficiency virus-AIDS virus), which is present on 35%-50% (about two-thirds of peripheral T cells) of peripheral blood lymphocytes-T helper/inducer (Th/Ti), 70%-80% of thymocytes and in low density on the peripheral blood monocytes and tissue macrophages. Th/Ti plays a role in helping Ig production by B lymphocytes and in enhancing the maturation and in increasing effectiveness of cytotoxic CD8 T cells.

**PREPARATION**

The monoclonal antibody is purified from ascites by protein G affinity 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.

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.

The conjugated reagent (PE-Cy5) is tested for flow cytometric analysis using 10 $\mu$ l/10<sup>6</sup> cells or 100 $\mu$ l peripheral blood cells.

**STORAGE**

For purified forms, long term storage at -20°C.

For conjugated forms, storage at 4°C, should not be frozen and avoid prolonged exposure to light.

**REFERENCES**

Tadamitsu K, K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. Leucocyte Typing  $\alpha$ : White Cell Differentiation Antigens. P: 49-52, 113-114 Garland Publishing, Inc., New York.

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