



Mouse Anti-Human CD4-PE conjugate

Catalog # **CD04P-100** **SIZE:** 100 Tests
Catalog # **CD04P-25** **SIZE:** 25 Tests

PRODUCT INFORMATION

CLONE: HIT4a
ISOTYPE: Mouse IgG2b, κ
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 α 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 μ l/10⁶ cells or 100 μ l peripheral blood cells.

The conjugated reagent (PE-Cy5) is tested for flow cytometric analysis using 10 μ l/10⁶ cells or 100 μ l 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

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