



PRODUCT DATA SHEET

Mouse Anti-Human CD44-PE conjugate

Catalog# CD44P-100 **Size** 100 tests

CD44 McAb recognizes 80-90KD type I transmembrane highly glycosylated cell surface protein, also called phagocytic glycoprotein-1 (Pgp-1), which is the receptor for hyaluronic acid. CD44 antigen is widely expressed on most cell types including leukocytes, erythrocytes, endothelial cells and epithelial cells, but not on platelets. CD44 is involved in leukocyte attaching to and rolling on endothelial cells, homing to peripheral lymphoid organs and to sites of inflammation, and leukocyte aggregation.

PREPARATION

The mouse monoclonal antibody (**IgG2a**) is purified from ascites by protein G affinity chromatography. The purified antibody was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

Absorption: 490 nm, 545 nm and 565 nm
Emission Wavelength: 580 nm

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). DO NOT FREEZE. The product should be stored at 4oC and is stable for a minimum of 1 year. Do not store diluted solutions.

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. For flow cytometry, use 10 ul of antibody/100 ul of whole blood or 10⁶ cells. Antibody may be increased to 20 ul per test to improve detection.

Due to many experimental variations, optimum concn must be determined for a given applications

Suggested isotype negative control

Catalog#	ProdDescription
20102-102	Mouse IgG2a isotype control, purified
20102-102-B	Mouse IgG2a-Biotin conjugate (isotype control)
20102-102-F	Mouse IgG2a-FITC conjugate (isotype control)
20102-102-FP	Mouse IgG2a-FITC-PE conjugate (isotype control)
20102-102-HP	Mouse IgG2a-HRP conjugate (isotype control)
20102-102-PC5	Mouse IgG2a-PE-Cy5 conjugate (isotype control)
20102-102-PE	Mouse IgG2a-PE conjugate (isotype control)

STORAGE

For short term store at 2-4oC. For long term storage at -20oC in suitable aliquots. The reagent is stable for 6-12 months if stored properly.

REFERENCES

Schlossman,S.,L.Bloumsell, W.Gilks,et al., eds. 1995. Leucocyte Typing □: White Cell Differentiation Antigens. P: 493, 539, 542-543 Oxford University Press, New York; Goldstein LA (1990) Immunogente. 32, 389; Lesley JR (1993) Ad. Immunol. 54, 271

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