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## Mouse Anti-Human CD9-PE-Cy5-conjugate

**Catalog #** CD09PC-100 **Size** 100 tests  
**Catalog #** CD09PC-25 **Size** 25 tests

### PRODUCT INFORMATION

**CLONE:** HI9a  
**ISOTYPE:** Mouse IgG1,  $\kappa$   
**WS.No.:** P018  
**Product Forms:** Purified, FITC conjugation, PE conjugation.

### DESCRIPTION

CD9 McAb recognizes a 24 KD type III single-chain transmembrane protein which spans the membrane 4 times called TM4. CD9 antigen expresses mainly on platelets (present in the  $\alpha$ -granules), pre-B cells, monocytes, endothelia cells, epithelia cells and activated T cells. CD9 antigen is a marker for 90% non T acute lymphoblastic leukemia cells and 50% acute myeloid leukemia. It is not expressed by hematopoietic progenitor cells nor by resting mature T and B cells. CD9 antigen mediates platelet aggregation and activation and may play a role in cellular adhesion and migration.

### 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.

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 -20oC.

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

### REFERENCES

- Schlossman S., L. Bloumsell, W. Gilks, et al., eds. 1995. Leucocyte Typing □: White Cell Differentiation Antigens. P: 1196, 1217, 1230, 2003 Oxford University Press, New York.
- Knapp, W., B. Dorken, E.P.Rieber, et al., eds. 1989. Leucocyte Typing □: White Cell Differentiation Antigens. P: 991, 1076 Oxford University Press, New York.
- Han JS., Liao XL., Huang LH., et al., 1989. HI117: A monoclonal antibody for purging in vitro autologous marrow grafts in acute leukemia. Chinese J. of Hematology. 10(3):113

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