



## Mouse Anti Human CD42b PE

### PRODUCT INFORMATION

**CLONE:** HIP1  
**ISOTYPE:** Mouse IgG1,  $\kappa$   
**WS.No.:** IVP40  
**CATALOG#:** A6643/A6653  
**CONTENTS:** R-PE conjugated antibody buffered in 10mM PBS (PH 7.0) with 0.05% NaN<sub>3</sub> and 1% BSA.

### DESCRIPTION

CD42b McAb recognizes a glycoprotein, heterodimer (GPIb $\alpha$ ) which contains an  $\alpha$  chain (CD42b, 145KD) and a  $\beta$  chain (CD42c, 22KD) linked by a disulfid bond forming a noncovalent complex with CD42a (GPIX) and d. This antigen is expressed on platelets and megakaryocytes. The GPIb/IX complex (CD42a-d) serves as a receptor for von Willebrand Factor (vWF) and thrombin, and mediates adhesion of platelets to subendothelium of damaged vascular walls. The absence of the CD42 complex leads to the Bernard-Soulier Syndrome (BSS). HIP1 McAb inhibits the ristocetin-dependent binding of vWF to platelets, ristocetin-induced platelet agglutination, and partially inhibits collagen-induced aggregation.

### PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with R-PE under optimum conditions.

### USAGE

The R-PE conjugation is tested for flow cytometric analysis using 20 $\mu$ l/10<sup>6</sup> cells or 100 $\mu$ l peripheral blood cells.

### STORAGE

Store at 4°C, should not be frozen and avoid prolonged exposure to light.

### REFERENCES

1. Chen Z., Bao ZX., Yu AX., et al., 1987. A group monoclonal antibodies against human platelets with different functions. Chinese Science Bulletin. 24:1902
2. Knapp W., B.Dorcken,E.P.Rieber,et al.,eds. 1989.Leucocyte Typing IV: White Cell Differentiation Antigens. P: 1000—1003, 1085 Oxford University Press, New York.

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