

Mouse Anti Human CD41 PE

PRODUCT INFORMATION

CLONE:	HIP8
ISOTYPE:	Mouse IgG1, κ
WS.No.:	IV P38
CATALOG#:	A6623/A6633
CONTENTS:	R-PE conjugated antibody buffered in 10mM PBS (pH 7.0) with 0.05% NaN_3 and 1% BSA.

DESCRIPTION

CD41 McAb recognizes a 140KD glycoprotein which is the α subunit of the CD41/CD61 (GPIIb/IIIa, $\alpha\text{IIb}\beta_3$) complex called glycoprotein IIb(GPIIb). GPIIb is a calcium-depedent, noncovalently associated heterodimer and contains a heavy chain (GPIIb α) and a light chain (GPIIb β) linked by a single disulfied bond. The CD41 antigen is restrictedly expressed by platelets and platelet precursors (megakaryocytes). CD41/CD61 complex is the receptor of fibrinogen, fibronectin and von Willebrand factor, and plays a central role in platelet activation and aggregation. The GPIIb/IIIa may be absent or strongly reduced in Glanzmann's thrombasthenia(GT). HIP8 McAb may completely inhibit platelet aggregation and ATP secretion induced by ADP, thrombin and collagen.

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 conjugated reagent is tested for flow cytometric analysis using 20 μl /10⁶ cells or 100 μl peripheral blood cells.

STORAGE

Store at 4 $^{\circ}\text{C}$, should not be frozen and avoid prolonged exposure to light.

REFERENCES

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2. Chen Z., Bao ZX., Yu AX., et al., 1987. A group monoclonal antibodies against human platelets with different functions. Chinese Science Bulletin. 24:1902
3. Bao CX., Liu JW., Chen GZ., et al., 1992. Some biological characterization of monoclonal antibody HIP2 receptor on platelet membrane glycoprotein IIB. Chinese J. of Hematology. 13(2):66
4. Bao CX., Chen Z., Jin XQ., et al., 1987. HIP2: A new monoclonal antibody with stimulation for human platelet. Chinese J. of Hematology. 8(2):65
5. Knapp W., B.Dorken, E.P.Rieber, et al., eds. 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. P: 997, 1084 Oxford University Press, New York.
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