Mouse Anti Human CD41 Purified

PRODUCT INFORMATION

CLONE: HIP2
ISOTYPE: Mouse IgG3
WS.No.: IVP39
CATALOG#: A7281/A7281-bulk
CONTENTS: Purified antibody buffered in 10mM PBS (pH 7.0) with 0.1% NaN_3.

DESCRIPTION

CD41 McAb recognizes a 140KD glycoprotein which is the α subunit of the CD41/CD61 (GPIIb/IIIa, αIIbβ3) complex called glycoprotein Iib (GPIIb). GPIIb is a calcium-depedent, noncovalently associated heterodimer and contains a heavy chain (GPIIbα) and a light chain (GPIIbβ) 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).

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography.

USAGE

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis.

STORAGE

Store at 4℃. Long term storage at -20℃. Avoid freeze and thaw cycles.

REFERENCES

1. Wu XW., Chen Z., Bao CX., et al., 1989. Production and application of anti-human platelet GPIIb/IIIa monoclonal antibodies. National Medical J. of China. 69(8):427
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.
6. Tadamitsu K, K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. Leucocyte Typing Ⅵ: White Cell Differentiation Antigens. P：644—648 Garland Publishing, Inc., New York.

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