

# Monoclonal Antibody IOPath® CD61

PN IM2116 - 6 mL - Liquid - Ready-to-use - Clone SZ21

For Research Use Only. Not for use in diagnostic procedures.

## SPECIFICITY

The CD61 antigen (platelet glycoprotein GPIIb) is the 110 kDa integrin  $\beta 3$  subunit, non-covalently associated with the integrin  $\alpha$  chain CD41 (GPIIb) forming IIb-IIIa complex ( $\alpha$ IIb- $\beta 3$  integrin) (1, 2). It is also associated with integrin  $\alpha V$  chain CD51 forming vitronectin receptor ( $\alpha V$ - $\beta 3$  integrin) (3). It is involved in platelet aggregation and adhesion to extracellular matrix. CD61 is present on platelets, megakaryocytes and macrophages.

CD61 is found in small and large vessel endothelial cells, fibroblasts and smooth muscle cells. SZ21 also reacts with platelets and megakaryocytes, osteoclasts, mast cells, some B lymphocytes, monocytes and macrophages.

The SZ21 mAb has been assigned to the CD61 cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (4).

## REAGENT

IOPath® CD61 Monoclonal Antibody  
PN IM2116 - 6 mL - Liquid - Ready-to-use

<b>Clone</b>	SZ21
<b>Isotype</b>	IgG1, mouse
<b>Immunogen</b>	Washed human platelets (5)
<b>Source</b>	Ascites fluid
<b>Purification</b>	Ion exchange or affinity chromatography

## REAGENT CONTENTS

This antibody is provided in 50 mM Tris-HCl, 150 mM NaCl, pH 7.2 with 1 mg/mL bovine serum albumin and 0.1 % sodium azide. The buffer contains a green dye.

## APPLICATION

Cytospins, smears and sections of frozen or fixed, paraffin-embedded tissues.

## STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

## STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

## REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

## PROCEDURE

The pre-diluted form should be used without dilution.

## SELECTED RESEARCH REFERENCES

1. Naik, U.P., Parise, L.V., "Structure and function of platelet  $\alpha$ IIb- $\beta 3$ ", 1997, Curr. Opin. Hematol., 4, 317- 322.

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3. Hynes, R.O., "Integrins: A family of cell surface receptors", 1987, Cell, 48, 549-554.
4. Blanchard, D., Borché, L., Petit-Frioux, Y., Müller, J.Y., "Cell expression and biochemical characterization of platelet antigens recognized by workshop platelet panel mAb", 1995, Leucocyte Typing V, White Cell Differentiation Antigens., Schlossman, S.F., et al., Eds., Oxford University Press, 1225-1229.
5. Ruan C., Du, X., Hwan, Hu, X., Xi, X. & Li, P., "Characterization of the fibrinogen binding sites using monoclonal antibodies to human platelet membrane glycoproteins IIb/IIIa" 1987, Thrombosis and Hemostasis, 58, 1, 243 (abstract).

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Printed in France.  
Made in France.

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