BECKMAN COULTER
MADE IN France

IOTest
Conjugated Antibody
CD61-FITC

	Specifications
Specificity	CD61
Clone	SZ21
Hybridoma	X63 x balb/c
Immunogen	Washed human platelets
Isotype	IgG1
Species	Mouse
Purification	Affinity chromatography
Fluorochrome	Fluoresceine isothiocyanate (FITC)
Molar ratio	FITC / Ig: 3.7 - 5.0
λ excitation	488 nm
Emission Peak	525 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN_3

REF IM1758U Liquid - 2 mL

Analyte Specific Reagent.
Analytical and performance characteristics are not established

REAGENTS
Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

WARNING AND PRECAUTIONS
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 considered potentially infectious 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.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

GHS HAZARD CLASSIFICATION
Not classified as hazardous

SDS	Safety Data Sheet is available at beckman.com/techdocs

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

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

CONTENTS

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

SPECIFICITY

CD61 (platelet glycoprotein GPIIIa) is the 110 kDa integrin beta3 subunit which is mainly expressed on platelets and endothelial cells. On platelets, it is non-covalently associated with the integrin alphaIIb chain (CD41, platelet GPIIb) to form the GPIIb/IIIa complex (alphaIIb/beta3 integrin) or high affinity receptor for the fibrinogen(1). Independently of CD41, CD61 is also associated with the integrin alphaV (CD51) to form the vitronectin receptor (2). CD41/CD61 is expressed only by platelets and megakaryocytes, whereas CD51/CD61 is found on osteoclasts, endothelial cells, macrophages, fibroblasts, smooth muscle cells, synovial lining cells and renal glomeruli (3).

SZ21 does not react with the A2 allele (4, 5) and shows a markedly reduced reactivity with PlA2 platelets, thus proving a useful tool to distinguish PlA1 from PlA2 (5). It recognizes the human integrin beta3 Cys26-Cys38 loop sequence (6). The SZ21 monoclonal antibody, specific for CD61 (6, 7), has been assigned to the CD61 at the 5th HLDA Workshop on Human Leucocyte Differentiation Antigens in Boston, USA in 1993 (WS Code: P088) (8).

TRADEMARKS

ADDITIONAL INFORMATION

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

Symbols Key

Glossary of Symbols is available at beckman.com/techdocs (document number B60062)

REFERENCES

1. Naik, U.P., Parise, L.V., "Structure and function of platelet α-aIIb-β3", Curr. Opin. Hematol., 4, 317-322.
2. Hynes, R.O., "Integrins: A family of cell surface receptors", 1987, Cell, 48, 549-554.
3. De Haas, M., von der Borne, A.E.G.Kr., "CD41/CD61 workshop panel report", 1996, Leucocyte Typing VI, White cell Differentiation Antigens, Kishimoto, T., et al, Eds., Garland Publishing, Inc., 643-644.
4. Honda, S., Honda, Y., Bauer, B., Ruan, C., Kunicki, T.J., "The impact of three-dimensional structure on the expression of PIA alloantigens on human integrin β3", 1995, Blood, 86, 234-242.
5. Weiss, E.J., Goldschmidt-Clermont, P.J., Grigoryev, D., Jin, Y., Kickler, T.S., Bray, P.F., "A monoclonal antibody (SZ21) specific for platelet GPIIIa distinguishes PIA1 from PIA2", 1995, Tissue Antigens, 46, 374-381.
6. Ruan, C., Du, X., Wan, H., Hu, X., Xi, X., Li, P., "Characterization of the fibrinogen binding sites using monoclonal antibodies to human platelet membrane glycoproteins IIb/IIIa", 1987, Thromb. Haemostas., 1, 58, 243 (abstract).
7. Chong, B.H., Du, X., Berndt, C., Horn, S., Chesterman, C.N., "Characterization of the binding domains on platelet glycoproteins Ib-IX and IIb/IIIa complexes for the quinine/quinine-dependent antibodies", 1991, Blood, 10, 77, 2190-2199
8. Blanchard, D., Borche, 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., Oxford University Press, 1225-1229.

IMMUNOTECH S.A.S. a Beckman Coulter Company, 130, avenue de Lattre de Tassigny,
BP 177, 13276 Marseille cedex 9, France, 33-491 172 727