

MONOCLONAL ANTIBODY CD42a

Cat. No.	Form	Quantity	Presentation
0538 1757	Purified FITC	0.2 mg 100 tests	Freeze-dried Liquid 2 ml

Clone SZ1

Isotype IgG2a (mouse)

Immunogen Washed human platelets

Hybridoma Myeloma X63 AG.8 X Balb/c spleen cells

Specificity The molecular weight of the recognized antigen is 23 kDa.
 CD42a antigen, also called GPIX, forms a noncovalent complex with GPIb. It is found on platelets and megakaryocytes.
 GPIb-IX mediates platelet adhesion through an interaction with subendothelial von Willebrand factor.
 SZ1 reacts with the GPIb/GP IX complex, but does not react with GPIb or GPIX, individually.

Applications Studies of platelet functions.
 Identification of GPIb/GPIX complex (immunoprecipitation).
 Binding studies.
 Immunoprecipitation.

Buffer Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.
 Liquid forms: 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

Reconstitution and Storage The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.

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FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



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The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C.

Recommended Procedures

Fluorescent microscopy or flow cytometry:

Liquid form: 20 μ l/ 10^6 platelets/test

Freeze-dried form: 2 μ g/ $\times 10^6$ platelets/test

Immunohistochemistry:

Suggestion form : freeze-dried

Working dilution 1:50 to 1:100.

This antibody is only suitable on frozen sections or cell smears.

References

This antibody has been studied at the Vth International Workshop on Human Leucocyte Differentiation Antigens in Boston (1993)

2) Du, X., Beutler, L., Ruan, C., Castaldi, P.A. & Berndt, M. "Glycoprotein Ib and glycoprotein IX are fully complexed in the intact platelet membrane" 1987, Blood, **69**, N°5, 1524-1527.

3) Chong, B.H., Du, X., Berndt, M.C., Horn, S., and Chesterman, C.N. "Characterization of the binding domains on platelet glycoproteins IB-IX and IIb/IIIa complexes for the quinine/quinine-depedent antibodies" 1991, Blood, **77**, No10, 2190-2199

4) Clemetson, K.J., and Lüscher, E.F. "Membrane glycoprotein abnormalities in pathological platelets" 1988, Biochemica et Biophysica Acta, **947**, 53-73