

Monoclonal Antibody CD42a

PN IM0538 – Purified – Freeze-dried – 0.2 mg – Clone SZ1

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

SPECIFICITY

The CD42a antigen (GPIX) is a 22 kDa single-chain membrane glycoprotein that forms a noncovalent complex with CD42b (1), CD42c and CD42d (GP1X, GP1b, GPV). The CD42a-d complex is the receptor for von Willebrand's factor and is known as von Willebrand's factor-dependent adhesion receptor. The CD42a antigen is expressed on platelets and megakaryocytes.

The SZ1 monoclonal antibody reacts with the CD42a-d complex but does not recognize GPIb or GPIX individually.

The SZ1 mAb has been assigned to the CD42a cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (2).

REAGENT

Monoclonal Antibody CD42a
PN IM0538 – Purified – Freeze-dried – 0.2 mg

Clone	SZ1
Isotype	IgG2a, mouse
Immunogen	Washed human platelets
Hybridoma	P3-X63-Ag.8 x Balb/c spleen cells
Source	Ascites fluid
Purification	Protein A affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline

APPLICATION

Flow cytometry.

STATEMENT OF WARNINGS

1. 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.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Do not expose reagents to strong light during storage or incubation.
5. Avoid microbial contamination of reagents or incorrect results might occur.

STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

SELECTED RESEARCH REFERENCES

1. 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, 1524-1527.
2. Ward, C.M., Berndt, M.C., "Epitope and functional characterization of the CD42 (gplb/IX) mAb panel", 1995, *Leucocyte Typing V, White Cell Differentiation Antigens*, Schlossman, S.F., et al., Eds., Oxford University Press, p 1336-1337.

PRODUCT AVAILABILITY

Monoclonal Antibody CD42a
PN IM0538 – Purified – Freeze-dried – 0.2 mg

TRADEMARKS

Beckman Coulter and the Beckman Coulter logo are trademarks of Beckman Coulter, Inc.

For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

Manufactured by:

Immunotech, a Beckman Coulter Company
130, avenue de Lattre de Tassigny, B.P. 177
13276 Marseille Cedex 9, France

©2005 Beckman Coulter, Inc.
All Rights Reserved