

Monoclonal Antibody CD49b

PN IM0717 – Purified – Freeze-dried – 0.2 mg – Clone Gi9

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

SPECIFICITY

The CD49b antigen (GPIa) is the 160 kDa integrin $\alpha 2$ chain which is non-covalently associated with the 130 kDa integrin $\beta 1$ -chain (CD29 molecule) forming the VLA-2 complex (GPIa/IIa). It is known as the collagen receptor. CD49b antigen is expressed by platelets, activated T lymphocytes and thymocytes.

The Gi9 monoclonal antibody has been assigned to the CD49b cluster of differentiation at the fifth International Workshop on Human Leukocyte Differentiation Antigens held in Boston, USA, in 1993 (1).

REAGENT

Monoclonal Antibody CD49b
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Clone	Gi9
Isotype	IgG1 kappa
Immunogen	Isolated human platelets
Hybridoma	P3-X63-Ag 8.653 x Balb/c spleen cells
Species	Mouse
Source	ascites fluid
Purification	Protein A affinity chromatography

REAGENT CONTENTS

1 mg/mL bovine serum albumin in phosphate-buffered saline.

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 reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date on the vial label when stored at 2–8°C. 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. Minimize exposure to warmth.

REAGENT PREPARATION

Reconstitute with 1 mL of distilled water. No preservative has been added.

APPLICATIONS

Studies of CD49b positive cells by flow cytometry.

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

SELECTED RESEARCH REFERENCES

1. Hemler, M.E., Kawaguchi, S., Bodorova, J., "CD49b cluster report" 1995, Leucocyte Typing V, White Cell Differentiation Antigens, Schlossman S., et al., Eds., Oxford University Press, 1615.

PRODUCT AVAILABILITY

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

Outside the USA, contact your local Beckman Coulter representative.

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