

Monoclonal Antibody CD56

PN IM1844 – Purified – Freeze-dried – 0.2 mg – Clone C218

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

SPECIFICITY

The CD56 antigen is a transmembrane member of the immunoglobulin superfamily of cell surface proteins. It is the product of one of the numerous alternative splicing events, generated from a single gene, encoding for the neural cell adhesion molecule (NCAM) isoforms.

The molecular weight of the recognized antigen is predominantly 140 kDa.

Posttranslational modifications to the polypeptides include addition of O-linked oligosaccharides, complex N-linked oligosaccharides, α -2,8-linked polysialic acid, sulfation, and phosphorylation.

The CD56 antigen is found on a subpopulation of peripheral blood large granular lymphocytes and is expressed by almost all human NK cells. Its density is increased on the cell membrane after activation. CD56 antigen is also expressed by some T-cell lines and by a subpopulation of activated T cells.

The C218 monoclonal antibody has been assigned to the CD56 cluster of differentiation at the sixth International Workshop on Human Leucocyte Differentiation Antigens held in Kobe, Japan, in 1996 (1).

REAGENT

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Clone	C218
Isotype	IgG1 kappa
Immunogen	Human NK clone
Hybridoma	Myeloma P3U1 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 CD56 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. Costa, P, "CD56 cluster report" 1997, Leucocyte Typing VI, White Cell Differentiation Antigens, Kishimoto, T., et al., Eds., Garland Publishing, Inc, 271-272.

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

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