

Monoclonal Antibody CD32

PN IM0417 – Purified – Freeze-dried – 0.2 mg – Clone 2E1

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

SPECIFICITY

The CD32 molecule (Fc γ RII) represents a 40 kDa low affinity receptor for IgG with affinity for complexed or aggregated IgG (1).

This class of Fc γ R consists of at least six isoforms originating from three different genes (Fc γ RIIA, B and C) and alternative splicing. These receptors mediate a lot of functions including endocytosis, stimulation of secretion, cytotoxic responses and immunomodulation.

Fc γ RII is expressed on every Fc γ R-bearing cell with the exception of natural killer cells.

Expression of the Fc γ RIIA gene is found on monocytes, neutrophils and platelets and at a low level on B lymphocytes. The Fc γ RIIIB comprises three isoforms: Fc γ RIIb1, IIb2 and IIb3. The Fc γ RIIb1 and IIb2 transcripts were found to be expressed on B lymphocytes (2). In peripheral blood 2E1 antibody reacts with monocytes, granulocytes, B cells and platelets (1).

The 2E1 monoclonal antibody was assigned to the CD32 cluster of differentiation at the 4th International Workshop on Human Leukocyte Differentiation Antigens in Vienna, Austria (1989) (1).

REAGENT

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Clone	2E1
Isotype	IgG2a
Immunogen	K 562 cells (mouse erythroleukemia cell line)
Hybridoma	Myeloma NS1 x Balb/c
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 light and warmth.

REAGENT PREPARATION

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

APPLICATIONS

Flow cytometry, Immunoprecipitation

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

SELECTED RESEARCH

REFERENCES

1. van de Winkel, J.G.J. and Anderson, C.L., "CD32 cluster workshop report", 1995, in Leucocyte Typing V, in Schlossman, S.F., et al Eds, Oxford University Press, 823-826.
2. van den Herik-Oudijk, I.E., Westerdaal, N.A.C., Henriquez, N.V., Capel, P.J.A., Van de Winkel, J.G.J. "Functional Analysis of human Fc γ RII (CD32) isoforms expression in B lymphocytes", 1994, J. Immunol., 152, 2, 574-585.

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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