

Monoclonal Antibody CD77

PN IM0175 – Purified – Liquid - 100 tests — 20 µL / test – Clone 38.13

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

SPECIFICITY

The CD77 antigen is neutral glycosphingolipid of the globoseries globotriaosylceramide (Gb3). It is known as the Pk blood group antigen, a normal intermediate in the biosynthetic pathway of the P blood group antigen. CD77 is also present as an antigen of germinal centre B lymphocytes entering apoptosis. It is expressed by endothelial cells. Studies have shown that the antigen may be associated with a Burkitt's Lymphoma-associated Antigen (BLA).

Reacts with red blood cells of phenotype p^{k1} or p^{k2}, activated B cells in agglutination assay at 4°C and the radioactive Coombs test. Does not react with P or P2 red cells; slightly agglutinates P1 red cells after papain treatment (anti-p^k activity) (1-4).

REAGENT

CD77 - Monoclonal Antibody
PN IM0175 – Purified – Liquid – 100 tests – 20 µL / test.

Clone	38.13
Isotype	IgM , Rat
Immunogen	Daudi Cell line (Burkitt's Lymphoma)
Hybridoma	Myeloma SP2/0-Ag 14x Lewis rat spleen cells
Source	Ascites fluid
Purification	Gel Filtration

REAGENT CONTENTS

This antibody is provided in phosphate-buffered saline pH 7.4, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

APPLICATION

Flow cytometry.
Immunohistochemistry on frozen sections.

STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an

extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

2. Specimens, samples and all material coming in contact with them should be handled as if they might transmit infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

Flow cytometry.
A wash is required to yield optimal results
Assay volume: 20 µL per 5 x 10⁵ cells in one test, or per 100 µL whole blood.

EXAMPLE DATA

Flow Cytometry.

SELECTED RESEARCH REFERENCES

1. Wiels, J., Fellous, M., Tursz, T.,
"Monoclonal antibody against a Burkitt

lymphoma-associated antigen", 1981, Proc. Nat. Acad. Sci. USA, 78, 6485-6488.

2. Nudelman, E.; Kannagi, R., Hakomori, S., Parsons, M., Lipinski, M., Wiels, J., Fellous, M., Tursz, T., "A glycolipid antigen associated with Burkitt lymphoma defined by a monoclonal antibody", 1983, Science, 220, 509-511.
3. Fellous, M., Cartron, J.P., Wiels, J., Tursz, T., "A monoclonal antibody against a Burkitt lymphoma associated antigen has an anti-Pk red blood cell specificity", 1985, Brit.J. Haematol., 60, 559-565.
4. Wiels, J., Tursz, T., "BLA a glycolipid marker of Burkitt's lymphoma and a subset of germinal-centre B-cells", 1989, in Leucocyte Typing IV, Knapp, W. Ed. Oxford University Press.

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Printed in France.
Made in France.

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