

PN IM1916 – 1 mL - Liquid – concentrated – Clones Ros 220 + ALB12

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

SPECIFICITY

The mixture of the two antibodies reacts with a molecule of 200 kD (CD45) present on the surface of the majority of human leukocytes.

The mixture stains lymphoid cells strongly. Histiocytes and macrophages react to a variable degree. Granulocytes are usually only weakly stained or even negative, while a proportion of plasma cells are negative. All other non hemopoietic tissues are negative with LCA reagent.(1-4).

Staining pattern : mainly membrane but weak cytoplasmic staining can also be observed.

REAGENT

IOPath⁺ CD45 Monoclonal Antibody
PN IM1916 – 1 mL – Liquid – Concentrated

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|---------------------|--|
| Clones | Ros 220 + ALB12 |
| Isotype | IgG1 + IgG2a, Mouse |
| Immunogen | Ros 220: human peripheral blood lymphocyte cell line. ALB12: cells from T-ALL |
| Hybridoma | N/A |
| Source | Ascites fluid |
| Purification | Ion exchange or affinity chromatography |

REAGENT CONTENTS

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

APPLICATION

Studies by immunohisto and cytochemical staining on cytological samples, frozen sections, and routinely fixed (B5, Bouin's, Dubosq-Brasil, Zenker's and formalin), paraffin-embedded tissue 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

It is recommended to use the concentrated form antibody solution at a 1: 50 dilution according to experimental conditions and procedures validated by each individual laboratory.

Trypsin treatment of sections prior to heating may enhance staining intensity

SELECTED RESEARCH REFERENCES

1. Kurtin, P.J., Pinkus, G.S., "Leukocyte common antigen. "A diagnostic discriminant between hematopoietic and nonhematopoietic neoplasms in paraffin sections using monoclonal antibodies", 1985, Hum. Pathol., **16**, 353-365.
2. Leong, ASY., "Immunohistochemistry: theoretical and practical aspects", 1993, in Leong ASY Ed, Applied Immunohistochemistry for the Surgical Pathologist, Edward Arnold, London, pp. 2-22.
3. Curran, R.C., and Gregory, J., "The unmasking of antigens in paraffin sections of tissue by trypsin", 1977, Experientia, **33**, 1400.
4. Szerkeres, G., Audoin, J., Le Tourneau, A., "Is immunolocalization of antigens in paraffin sections dependent on methods of antigen retrieval?", 1994, Appl. Immunohistochem., **2**, 137-140.

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