

**MONOCLONAL ANTIBODY CD45 (LCA)**

Cat. No.	Form	Quantity	Presentation
1916	Concentrated	1 ml	Liquid

**Clone** Ros 220 ALB12

**Isotype** IgG1 (mouse) IgG1 (mouse)

**Immunogen** Ros 220: human peripheral blood lymphocyte cell line.  
ALB12: cells from T-ALL.

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

Normal cells: 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.

Tumor cells: Studies have shown that CD45 stains neoplastic B and T cells in leukemias of T and B cell type and in non-Hodgkin's lymphoma. Research indicates that Hairy cells are also reactive, but neoplastic cells of myeloid or erythroid origin are generally weakly stained or even negative. Non-hemopoietic tumors, e.g. carcinomas, sarcomas, melanomas, etc. are negative (1-8).

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

**Positive Control** Normal human lymphoid tissue (e.g. lymph node, spleen, tonsils) fixed and processed in the same manner as the test specimen.

**Applications** Studies by immunohisto and cytochemical staining of CD45 on tumors of lymphoid origin.

**Buffer** 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

**Storage** The antibody should be stored at 2-8°C. Do not freeze.

**Recommended Procedures** CD45 antibody is for use on cytological samples, frozen sections, and routinely fixed (B5, Bouin's, Dubosq-Brasil, Zenker's and formalin), paraffin-embedded tissue sections.

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FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES



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Trypsin treatment of sections may enhance staining intensity (10,11): sections should be treated with a Trypsin solution (0.1FIP-U per ml of Phosphate-Buffered Saline (PBS) or Tris Buffer Saline (TBS) at 37°C for 10-20 minutes. The reaction should be stopped in water.

Process immunostaining according to previously described methods (9). CD45 antibody should be diluted to 1:50 prior to use and incubated on tissue sections for 60 minutes at room temperature.

## References

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