

**MONOCLONAL ANTIBODY CD45 (LCA)**

Cat. No.	Form	Quantity	Presentation
1076	Pre-diluted	6 ml	Ready-to-use

- Clone** Ros 220 ALB12
- Isotype** IgG1 (mouse) IgG2b (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 types 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 and 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** Immunohisto and cytochemical staining of CD45 on tumors of lymphoid origin.
- Buffer** 50 mM Tris-HCl, 0.15 M NaCl, pH 7.4 containing 1 mg/ml bovine serum albumin and 0.1% sodium azide. The buffer contains a green dye.
- Storage** The antibody solution should be stored at 2-8°C.
- Recommended Procedures** CD45 antibody is ready for use on cytological samples, frozen sections, and routinely fixed (B5, Bouin's, Dubosq-Brasil, Zenker's and formalin), paraffin-embedded tissue sections. Process immunostaining according to previously described methods (9).

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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.

## References

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