



Monoclonal Antibody to **CD45, Leukocyte common antigen (LCA)**

Technical Data Sheet

Reagent Category

Monoclonal primary antibodies to
LCA (CD45)

Antibody Formats Supplied

- 7 ml of CD45 (LCA), Ready-To-Use
- 0.2 ml of CD45 (LCA), Concentrate

PRODUCT# IMI16061E (Ready-To-Use)

PRODUCT# IMI16052E (Concentrate)

SOURCE: Mouse ascites fluid

IMMUNOGLOBULIN ISOTYPE: IgG1

CLONE: 2B11&PD7/26

POSITIVE CONTROL TISSUE: Tonsil

STAINING PATTERN: Membrane staining

REACTIVITY

Leukocyte common antigen (LCA/CD45) is composed of at least five high molecular weight glycoproteins (189,190, 205, 220 kD) present on the surface of virtually all lymphoid cells and absent on non-hematopoietic tissues. LCA has been used in studying neoplastic B and T cells in non-Hodgkin's lymphoma and in leukemias. CD45 was typed by fourth leukocyte workshop in Vienna in 1989. LCA (CD45) antibody is reactive with normal lymphoid cells as well as lymphoid tumor cells and it is non-reactive with non hematopoietic tissues such as epithelial or connective tissues. In normal lymphoid cells intense cell surface membrane staining is observed. In tumor cells, neoplastic B and T cells of lymphoma and leukemia as well as hairy cells are reactive while neoplastic cells of myeloid and erythroid origin remains non-reactive. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections. It is compatible with formalin fixed tissues and with other commonly used histological fixatives.

Antibody FORMAT, DILUTION and INCUBATION

Affinity purified monoclonal CD45 antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05 % sodium azide.

7 ml of Ready-to-Use; **Do not dilute.** Incubate for 10-30 minutes. **This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

For Background-Free and easy retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing the solution, bring the Uni-Trieve solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.

0.2 ml of concentrate; for 10-30 minute incubation, dilute 1:50. **This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

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The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT (2-step) detection systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.

APPLICATIONS

This antibody is intended for use in immunolocalization of LCA (CD45) antigens by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative and /or quantitative localization of LCA (CD45) surface antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with human tissue has been substantiated, other species reactivity may be characterized by the end user.

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

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