CD45 / LCA (Leucocyte Marker) (2B11 + PD7/26)

Format	Catalog No.	Pack size	Dilution
Concentrated	G01637 A, B, C	0.1, 0.5, 1.0 ml	1:100-200
Prediluted	G01637 AA, BB	6.0, 3.0 ml	Ready to use

SPECIES: Mouse

IMMUNOGEN: Isolated neoplastic cells from T cell lymphoma (2B11); and human peripheral blood lymphocytes maintained in T cell growth factor (PD7/26).

CLONE: 2B11+PD7/26

ISOTYPE: IgG1

SPECIES REACTIVITY: Human

POSITIVE CONTROL: Ramos cells.

CELLULAR LOCALIZATION: Cell membrane, Membrane raft

FORMAT: This antibody has been pre-titered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.

INTENDED USE: For Research Use Only (RUO).

SCIENTIFIC BACKGROUND: Identifies the CD45 leukocyte common antigen (LCA) family, which consists of at least four membrane glycoprotein isoforms (220, 205, 190, and 180 kDa) that are expressed on haematopoietic cell lines but not on non-hematopoietic cell lines, normal tissues, or malignant non-hematopoietic tissues. These compounds' intracellular components regulate transmembrane signalling and exhibit protein phosphatase activity. When differentiating lymphoid tumours from non-hematopoietic undifferentiated neoplasms, an antibody to CD45 can be helpful. An MAb result that is positive is very likely to be of lymphoid or myeloid origin. The absence of CD45 may not necessarily rule out haematolymphoid tumours because some lymphoid neoplasms, such as Hodgkin lymphoma, some T-cell lymphomas, and some leukaemias, may not have it. The majority of benign and malignant lymphocytes, as well as plasma-cell precursors, have this antibody, which is almost exclusively expressed by cells of the haematopoietic lineage.

MICROBIOLOGICAL STATE : Non-sterile product; store according to recommended guidelines.

RECOMMEDNED USAGE:

- **Immunohistochemistry (IHC):** 1–2 µg/ml
  - Requires Tris-EDTA (pH 9.0) antigen retrieval at 95°C for 45 min, followed by cooling for 20 min at RT
- **Immunofluorescence (IF):** 1–3 µg/ml

- **Storage Conditions:** 1–3 µg/ml
  - With azide: 2–8°C
  - Without azide: –20 to –80°C

- **Stability:** 24 months

LIMITATIONS AND USES:

1. Contains 0.05% sodium azide – handle with care
2. Avoid skin and mucosal contact
3. Not intended for diagnostic or therapeutic use

STABILITY AND STORAGE –

Avoid freezing. Keep between 2 and 8°C. After use, immediately return to 2–8°C. Never use after the label's stated expiration date. Before using the antibody, visually confirm that it hasn't been contaminated. If the reagent precipitates or gets hazy, do not use it.

RESTRICTIONS–

Histological and immunological detection techniques are both used in the intricate process of immunohistochemistry. Results from tissue handling and processing before immunostaining can vary. Results may differ depending on the intrinsic characteristics of the tissue samples or on differences in fixation and embedding. Depending on the detection method employed, endogenous biotin and endogenous peroxidase or pseudoperoxidase activity in erythrocytes may result in non-specific staining. The methods and suggestions in this data sheet were verified with Genebio IHC reagents and might not work with other detection systems.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com