

### 36-3071: Anti-CD45 / LCA (Leucocyte Marker) Monoclonal Antibody(Clone: SPM569 + SPM570)-FITC

|                                |   |
|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | SPM569 + SPM570   |
| <b>Application :</b>           | FACS,IF,WB,IHC  |
| <b>Reactivity :</b>            | Human   |
| <b>Conjugate :</b>             | FITC  |
| <b>Gene :</b>                  | PTPRC   |
| <b>Gene ID :</b>               | 5788  |
| <b>Uniprot ID :</b>            | P08575  |
| <b>Alternative Name :</b>      | B220, CD45R, GP180, Leukocyte common antigen (LCA), Loc, Ly-5, Lyt-4, Protein tyrosine phosphatase receptor type C (PTPRC), Receptor-type tyrosine-protein phosphatase C, T200 glycoprotein |
| <b>Isotype :</b>               | Mouse IgG1, kappa + Mouse IgG1, kappa   |
| <b>Immunogen Information :</b> | Human B- and T-lymphoma cells   |

#### Description

Recognizes the CD45 leukocyte common antigen (LCA) family which is comprised of at least four isoforms of membrane glycoproteins (220, 205, 190, 180kDa) expressed on hematopoietic cell lines but absent on non-hematopoietic cell lines, normal and malignant non-hematopoietic tissues. The intracellular portions of these molecules have protein phosphatase activity and are involved in regulation of transmembrane signals. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms. A positive result with this MAb is highly indicative of lymphoid or myeloid origin. Certain types of lymphoid neoplasms may lack CD45 (Hodgkin lymphoma, some T-cell lymphomas, and some leukemias) so its absence does not rule out a hematolymphoid tumor. This antibody is expressed almost exclusively by cells of hematopoietic lineage and is present in most benign and malignant lymphocytes as well as plasma cell precursors.

#### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 0.5 ml at 100µg/ml  |
| <b>Content :</b>           | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous.   |

#### Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

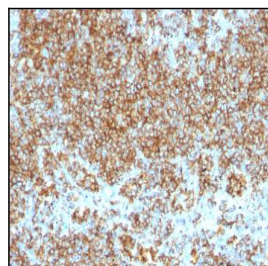


Fig. 1: Formalin-fixed, paraffin-embedded human Lymphoma stained with CD45 Monoclonal Antibody (SPM569+SPM570).