



## HISTOPRIME<sup>®</sup>

**CatNo E005**

### Leucocyte marker LCA

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

### Monoclonal Antibody against Leucocyte Common Antigen T 200 (CD45/CD45RB)

#### Specificity

Leukocyte common antigen (LCA) or T 200 glycoprotein was originally discovered in mice. It is composed of a family of proteins with high molecular weights (MG 180, 190, 205, 220 kD).

T 200 glycoprotein is found exclusively on cells of the hematopoietic system and is widely distributed within this system. This marker is expressed by T and B lymphocytes as well as myeloid cells and their progenitors in different variations.

A structural homolog of the mouse T 200 glycoprotein was identified in the human body. Again, all cells of the hematopoietic system expressed it. It was not found in non-hematopoietic tissues.

#### Contents

Reagents sufficient for about 60-120 tissue sections  
1 dropper bottle **HISTOPRIME<sup>®</sup> Leucocyte marker (LCA)** (Bottle, 6 ml)

#### Application

The antibody reagent E005 contains two monoclonal antibodies (clones PD7/26 and 2B11). Both antibodies show a reaction on cells of the hematopoietic system only in connection with the T 200/LCA glycoprotein. At the same time, epitopes in the CD45RB cluster are also detected. Immunohistochemically, the cell surface stains intensely, while the cytoplasmic reaction is less intense. No reaction occurs in non-hematopoietic tissue (e.g. epithelia or connective tissue).

Furthermore, with the monoclonal antibodies a differentiation of malignant lymphomas from non-hematopoietic, undifferentiated neoplasms is possible.

#### Immunogen

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

E005-220109-1/2



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### Characterization

<b>Antigen</b>	Antigen, T 200 (CD45/CD45RB)
<b>Specificity</b>	Lymphoid cells
<b>Abnormal Tissues</b>	Differentiation into non-hematopoietic, undifferentiated neoplasms and malignant lymphomas
<b>Clone</b>	PD7/26 and 2B11
<b>Isotype</b>	Mouse IgG1
<b>Pretreatment</b>	Proteolytic pretreatment with enzymes not required.
<b>Incubation Period</b>	1 hour by room temperature
<b>Control tissue</b>	Lymph nodes, thymus, spleen
<b>Application</b>	Ready-to-use in PBS, BSA, NaN <sub>3</sub> (0.09%) pH 7.4(*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections
<b>Recommended Secondary Reagents</b>	<b>Alkaline Phosphatase</b> Vectastain <sup>®</sup> ABC Mouse IgG (Vector CatNo AK-A5002) and Substrate-Kit e.g. Vector <sup>®</sup> Red (Vector CatNo SK-5100). <b>Peroxidase</b> Vectastain <sup>®</sup> ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).

### References

1. Warner R.A., Gatter K.C., Falini B. et al.: Diagnosis of human lymphoma with monoclonal and leucocyte antibodies. N. Engl. J. Med. 309; 1275-1281 (1983)
2. Michie S.A., Spagnolo D. V., Dunn K.A., Warnke R. A., and Rouse R.V.: A panel approach to the evaluation of the sensitivity and specificity of antibodies for the diagnosis of routinely processed histologically undifferentiated human neoplasms. Am J. Clin.Pathol. 88; 457-462 (1987)
3. Streuli M., Morimoto C., Schreiber M., Schlossmann S.F., Saito H.: Characterization of CD45 and CD45R monoclonal antibodies using transfected mouse cell lines that express individual human leucocyte common antigens. J.Immunol. 141; 3910-3914 (1988)
4. Schraven B., Roux M., Hutmacher B., and Meuer S. C.: Alternative pathway activation of human T-lymphocytes involves the CD45 glycoproteins. N7.4 pp 640-643 In: Leucocyte Typing IV; White cell differentiation antigens. W.Knapp et al. eds. Oxford University Press (1989)

**Differential identification is aided by the results from a panel of antibodies. Interpretation must be made within the context of the patient's clinical history and other diagnostics tests by a qualified pathologist.**

**(\*)Note** E005 contains Sodium Azide; take adequate precautions!

E005-220109-2/2

**For Research use only. Not for use in diagnostic procedure**

Manufacturer

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FIT FOR SCIENCE

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