



## HISTOPRIME<sup>®</sup>

**CatNo E027**

### T cells (CD45RO, UCHL1)

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

### Monoclonal Antibody against human T-cell antigen CD45RO

#### Specificity

The monoclonal antibody E027 (UCHL1) recognizes a T cell-associated antigen with a molecular weight of approximately 180 kD. This is the low molecular weight isoform of the leucocyte common antigen (LCA) CD45, which since the IV International Workshop on Leucocyte Differentiation Antigens (Vienna 1989) has been designated CD45RO). The antigen is expressed by a functional subset of CD4+ T cells, by most thymocytes, and by granulocytes and monocytes.

Studies of B- and T-cell lymphomas and plasmocytes suggest that CD45RO (UCHL1) is expressed in normal B cells prior to differentiation to plasma cells, but plasmocytomas are negative except for a few reactive lymphocytes.

Negative for CD45RO are also cutaneous T-cell lymphomas (mostly CD4+, CD45R-).

#### Contents

Reagents sufficient for about 50-100 tissue sections

1 dropper bottle **HISTOPRIME<sup>®</sup> T cells (CD45RO, UCHL1)** (Bottle, 5 ml)

#### Application

Characterization of B-cell and T-cell lymphomas in cryostat material and paraffin-embedded tissue.

#### Fusion Partners

E027 is produced from the cell culture supernatant of mouse hybridoma cells secreting UCHL1. An IL-2-dependent T cell line (CA1) was used for immunization.

E027-230109-1/2



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### Characterization

<b>Antigen</b>	IL-2-activated T cells (CA1)
<b>Specificity</b>	Thymocytes, CD4+/CD45RO+ T-lymphocytes (T-helper cells)
<b>Abnormal Tissues</b>	Differentiation of T-cell lymphomas. UCHL1 is negative in plasmocytomas and most T-cell lymphomas in the skin; Reed-Sternberg cells are also negative in Hodgkin lymphoma.
<b>Clone</b>	UCHL1
<b>Isotype</b>	Mouse IgG2a
<b>Pretreatment</b>	Pretreatment of formalin-fixed material with Pronase is not required.
<b>Incubation Period</b>	1 hour at room temperature
<b>Control Tissue</b>	Tonsils, lymph nodes, 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-5002) 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).
<b>References</b>	

1. Norton A.J., Ramsay A.D., Smith S.H., Beverly P.C.L., Isaacson P.G. (1986). Monoclonal antibody (UCHL1) that recognises normal and neoplastic T cells in routinely fixed tissues. *J. Clin. Pathol.* 39, 399-405.
2. Smith S.H., Brown M. H., Rowe C., Callard R.E., and Beverly P.C.L. (1986: Functional subsets of human helper inducer cells defined by a new monoclonal antibody, UCHL1. *Immunol.* 58, 63-70.
3. Van der Valk P., Mullink H., Huijgens P.C., Tadema T.M., Vos W., and Meijer C.J.L.M. (1989) Immunohistochemistry in Bone Marrow Biopsies. *Am. J. of Surg. Path.* 13 (2)97-106.
4. Schwinzer R. (1989) Cluster Report: CD45/CD 45R In : Leucocyte Typing IV, White Cell Differentiation Antigens W. Knapp et al. eds. Oxford University Press (Oxford N.Y., Tokyo) S. 628-634.
5. Poppema S., Visser L., Lai R., Shaw A., and Slupsky J. (1989) Antibody MT3 is reactive with a predominant 190-kDa band of the leucocyte common antigen in plasmacytomas. In: Leucocyte Typing IV, White Cell Differentiation Antigens W. Knapp et al. eds. Oxford University Press (Oxford, N.Y., Tokyo) S.637-639.

**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 E027 contains Sodium Azide; take adequate precautions!**

E027-230109-2/2

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

Manufacturer

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FIT FOR SCIENCE

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