



HISTOPRIME[®]

CatNo E077

Endothelial cells (CD34)

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

Monoclonal Antibody against CD34

Specificity

In immunohistochemistry, the monoclonal antibody E071 stains mesothelial cells. It recognizes an antigen localized on the plasma membrane of mesothelial cells.

Contents

Reagents sufficient for about 50-100 tissue sections
1 dropper bottle **HISTOPRIME[®] CD34, Endothelial cells** (Bottle, 5 ml)

Application

The antibody clone QBEND/1 reacts with an epitope on endothelial cells and hematopoietic progenitor cells that is not neuraminidase sensitive but is cleaved by chymopapain and glycoprotease (class II antibody). It can be used to detect endothelial cells and hematopoietic progenitor cells in tissue, cell smear and cell cultures.

E077-230109-1/2



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Characterization

| | |
|---------------------------------------|--|
| Antigen | Purified human endothelial vesicles. |
| Specificity | Human CD34 antigen (epitope neuraminidase-stable, glycoprotease- and chymopapain sensitive) |
| Clone | QBEND/10 |
| Isotype | Mouse IgG1 |
| Pretreatment | Pre-treatment with HISTOSAFE-ENHANCER (Art. No. E7000) for paraffin sections. No protease treatment. |
| Incubation Period | 1 hour by room temperature |
| Control Tissue | Tonsil, Bone marrow |
| Application | Ready-to-use in PBS, BSA, NaN ₃ (0.09%) pH 7.4(*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections. |
| Recommended Secondary Reagents | Alkaline Phosphatase Vectastain [®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector [®] Red (Vector CatNo SK-5100). Peroxidase Vectastain [®] 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. Civin C.I., Strauss L.C., Brovall C., Fackler M.J., Schwartz J.F., Shaper J.H. (1984) Antigenic analysis of haematopoiesis. III. A hematopoietic progenitor cell surface antigen defined by a monoclonal antibody raised against KG-1a cells. *J. Immunol.* 133; 157-165.
2. Civin C.I., Trischmann T.M., Fackler M.J., Bernstein I.D., Bühring H.J., Campos L., et al. (1989) M7.1. Report on the CD34 cluster workshop. In: Kapp W. et al. Eds. *Leucocyte Typing IV. White Cell Differentiation Antigens.* Oxford, New York, Tokyo: Oxford University Press pp. 818-8
3. Fina L. et al. (1990) Expression of the CD34 gene in vascular endothelial cells. *Blood* 75; 2417-2426.
4. Dercksen M.W., Daams G.M., de Haas M., von dem Borne A.E.G.K., and van der Schoot C.E. M10.2. Characterization of the CD34 cluster. In: Schlossman S.F. et al. Eds. *Leucocyte V. White Cell Differentiation Antigens.* Oxford, New York, Tokyo: Oxford University Typing Press pp. 850-853.

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 **E077 contains Sodium Azide; take adequate precautions!**

E077-230109-2/2

For Research use only. Not for use in diagnostic procedure

Manufacturer

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FIT FOR SCIENCE

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