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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CD34, human - Nordic MUBio

nordicmubio.com/product/cd34-human

CD34, human

Catalogue number: **CD34-1**

Clone	QBEND/10
Isotype	IgG1,k
Product Type	Primary Antibodies
Units	1 ml
Host	Mouse
Application	Immunohistochemistry (paraffin)

Background

The antibody clone QBEND/10 reacts with an epitope on endothelial cells and haematopoietic progenitor cells, which is not sensitive to neuraminidase but to chymopapain and glycoprotease (CD34 class II antibodies). It may be used for the detection of endothelial cells and haematopoietic progenitor cells in tissues, cell smears and cell cultures. The CD34 molecule is a glycoprotein (110 kDa), which is expressed as well by endothelial cells as by haematopoietic precursor cells (BFU-E, CFU-GM, CFU-Meg, CFU-Eo, CFU-osteoclasts and CFU-blasts) in human bone marrow. CD34 is the earliest marker of colony building cells in bone marrow. The molecule is heavily glycosylated in the N-terminal extracellular region and therefore sensitive to neuraminidase (target of CD34 class I antibodies). This region is followed by a globular Cys-rich domain. The cytoplasmic portion of the molecule contains sites for proteinkinase C and tyrosine phosphorylation. Human CD34 antigen (Epitope neuraminidase resistant , glycoprotease- and chymopapain-sensitive).

Source

Immunogen: Purified human endothelial vesicles

Product

Antibody solution in stabilizing phosphate buffer pH 7.3. Contains 0.09 % sodium azide**. The volume is sufficient for at least 100 immunohistochemical tests (100 µl

working solution / test). Use appropriate antibody diluent e.g. BIOLOGO Art .No. PU002.

Purification Method: Antibody solution in stabilizing phosphate buffer pH 7.3. Contains 0.09 % sodium azide**. The volume is sufficient for at least 100 immunohistochemical tests (100 µl working solution / test). Use appropriate antibody diluent e.g. BIOLOGO Art .No. PU002.

Concentration: 40 µg/ml

Secondary Reagents: We recommend the use of BIOLOGO's Universal Staining System DAB (Art. No. DA005) or AEC (Art.-No. AE005).

Specificity

Species Reactivity: Human, Rhesus Monkey, no cross-reactivity with cattle, dog, rat and sheep

Applications

IHC(P)

Incubation Time: 60 min at RT

Working Concentration: (liquid conc.) 1:10 - 1:20

Pre-Treatment: No protease pre-treatment!, Pre-treatment with unmasking fluid G (Art. No. DE007) or unmasking fluid C (Art. No. DE000) at 90-100°C may be helpful.

Positive Control: Tonsil, bone marrow

Storage

2-8°C

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.

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-Ia 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. 818-825. 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. Charakterization of the CD34 cluster. In: Schlossman S.F. et al. Eds. Leucocyte Typing V. White Cell Differentiation Antigens. Oxford, New York, Tokyo: Oxford University Press pp. 850-853.

Safety Datasheet(s) for this product:

NM_Sodium Azide

[/wp-content/uploads/SDS/Antibody SDS with Sodium Azide Noridic-MUbio.pdf](#)