Nordic BioSite AB
Propellervägen 4A, 183 62 Täby, Sweden
T +46 (0)8 544 433 40
info@nordicbiosite.com, www.nordicbiosite.com
Org. No: 556539-9374, Residence: Täby

Anti-CD34, mouse monoclonal (BS72)

BSH-2008-100 (0,1ml), BSH-2008-1 (1 ml)

Clonality:	Mouse monoclonal antibody
Clone:	BS72
Application:	IHC-P (1:100 – 1:400), IHC-Fro
Species Reactivity:	Human (others not tested)
Control tissues:	Appendix, tonsil, liver
Buffer:	TRIS with 0.03% sodium azide, pH 7,2
Storage:	Store at 4°C

Description

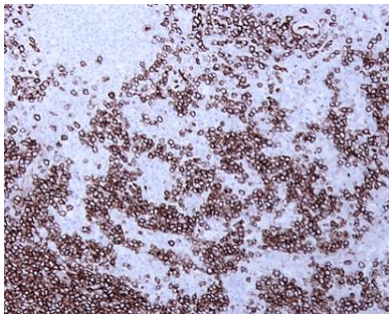
CD34 is a transmembrane glycoprotein with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells, endothelial cells and some fibroblasts. It could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is highly expressed on hematopoietic progenitors, as well as on endothelial cells. CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.

Protocol

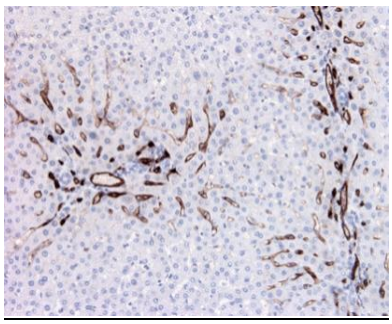
After paraffin removing and rehydration:

1. Pretreatment: HIER pH9
2. Wash (TBS-Tween)
3. Primary antibody: : CD34 1:100 - 1:400, 30 min.
4. Wash
5. 3% H_2O_2, 10 min.*
6. Wash
7. BioSite Histo HRP One-Step Polymer (KDB-10007), 30 min
8. Wash
9. Wash
10. DAB high contrast Kit (BCB-20032), 10 min
11. Aqua
12. $CuSO_4$ -post enhancement, 5 min
13. Aqua
14. Counter staining in diluted Mayer, 1 min
15. Bluing, 7 min in tap water
16. Dehydration, clearing and mounting

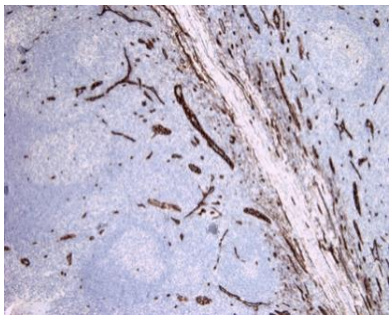
Dilution of this concentrated antibody depends on the detection system used and the final working dilution need to always be determined by the user.
* Optional; Endogenous peroxidase blocking can also be done before primary antibody incubation.



Spleen section has been stained using CD34 optibody (Clone: BS72) with 1:200 dilution. Neoplastic cells of acute lymphoblastic leukaemia have been stained with strong intensity.



Liver section has been stained using CD34 optibody (Clone: BS72) with 1:200 dilution. Sinudoids of liver have been stained moderate in near of the portal veins. Portal veins stained with strong intensity.



Tonsil section has been stained using CD34 optibody (Clone: BS72) with 1:200 dilution. Vascular endothelia have been stained strongly.