

Anti-CD34, mouse monoclonal (BS72)

BSH-2008-100 (0.1 ml), 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

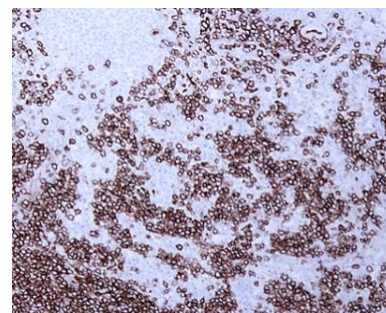
Description

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.

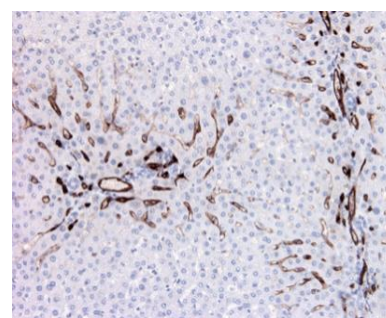
Protocol

1. Deparaffinize and rehydrate tissue section
2. Wash: aqua dest, 2×5 min
3. Pre-treatment: PT-module HIER pH 9.0 (20min at 98°C)
4. H₂O₂ (concentration 3%), 10 min
5. Wash: PBS or TBS buffer, 2×5 min
6. Primary antibody diluted as recommended, 30 min
7. Wash: PBS or TBS buffer, 2×5 min
8. One step HRP-polymer detection, 30 min
9. Wash: PBS or TBS buffer, 2×5 min
10. DAB Substrate, 8 min
11. Wash: aqua dest, 2×2 min
12. Counterstain, dehydrate and coverslip

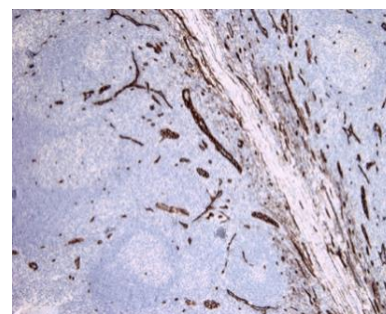
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



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. Sinusoids 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.