10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM610]
Catalog # AH12711

Specification

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide - Product Information

Application	**,1,2,3,4,**
Primary Accession	P28906
Other Accession	947, 374990
Reactivity	**Human, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**90-110kDa KDa**

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide - Additional Information

Gene ID 947

Other Names
Hematopoietic progenitor cell antigen CD34, CD34, CD34

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide - Protein Information

Name CD34

Function
Possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. 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. Presents carbohydrate ligands to selectins.

Cellular Location
Membrane; Single-pass type I membrane protein.

Tissue Location
Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a

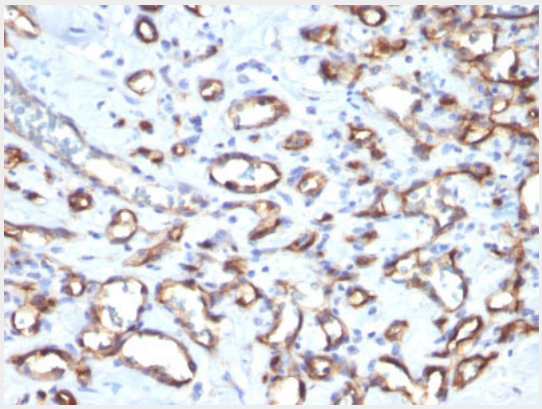
variety of tissues

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD34 Monoclonal Antibody (SPM610)

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide - Background

This antibody recognizes a carbohydrate epitope on a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34 (VI international workshop on human differentiation antigens). Its expression is a hallmark for identifying pluripotent hematopoietic stem or progenitor cells. Its expression is gradually lost as lineage committed progenitors differentiate. CD34 is a marker of choice for staining blasts in acute myeloid leukemia. In addition, it is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. CD34 expression is also found in vascular endothelium. Additionally, proliferating endothelial cells overexpress this molecule than the non-proliferating endothelial cells. Anti-CD34 labels > 85% of angiosarcoma and Kaposi s sarcoma, but shows low specificity.

CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody - With BSA and Azide - References

Felshow DM et al. Blood 97:3768-3775 (2001). | Sato T et al. Blood 94:2548-2554 (1999). |