CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody

Mouse Monoclonal Antibody [Clone HPCA1/1171]

Catalog No	Format	Size
947-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
947-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
947-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

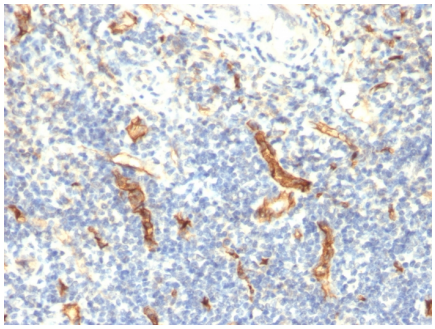
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

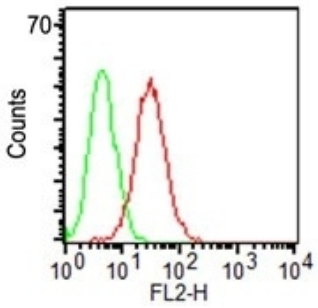
Clone	HPCA1/1171
Gene Name	CD34
Immunogen	Recombinant full-length human HPCA1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	90-110kDa
Cellular Localization	Membrane
Species Reactivity	Human, Rat
Positive Control	KG-1 cells. Human tonsil or angiosarcoma.

**Optimal dilution for a specific application should be determined.*

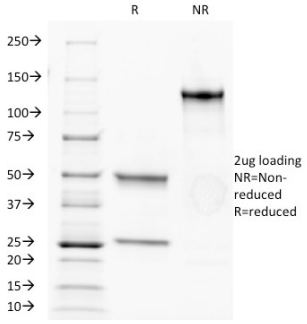
Product Images for CD34 (Hematopoietic Stem Cell & Endothelial Marker) Antibody



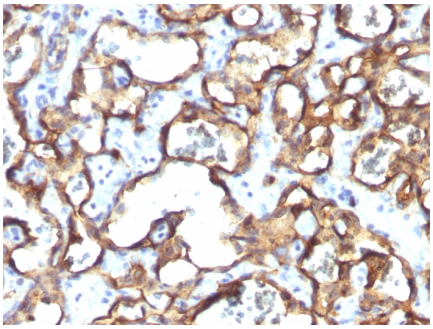
Formalin-fixed, paraffin-embedded human Tonsil stained with CD34Monoclonal Antibody (HPCA1/1171)



Flow Cytometry of KG-1 cells using CD34 Monoclonal Antibody (HPCA1/1171) (red) & isotype control (green).



SDS-PAGE Analysis of Purified CD34 MAb (HPCA1/1171). Confirmation of Integrity and Purity of Antibody.



Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD34 Monoclonal Antibody (HPCA1/1171)

Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Endothelial Cell Marker, Hematopoietic Stem Cells, Hypoxia, Immunology, Mesenchymal Stem Cell Differentiation

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.