

Mouse CD34 Monoclonal Antibody | anti-CD34 antibody

CD34

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62618	Mouse	Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog.	Immunohistochemistry, Immunoprecipitation, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

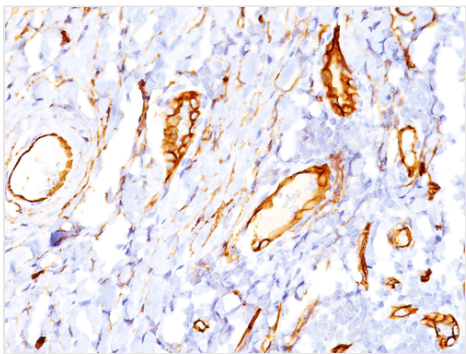
PRODUCT SYNONYMS

CD34; Monoclonal Antibody; Hematopoietic Progenitor Cell Antigen; HPCA1; Mucosialin; anti-CD34 antibody

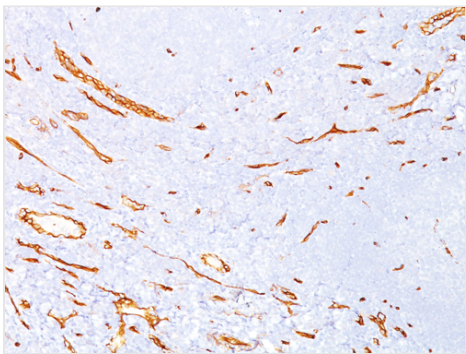
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	QBEnd/10
Specificity	This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. CD34 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, CD34 is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. Its expression is also found in vascular endothelium. Additionally, it appears that proliferating endothelial cells express this molecule more than the non-proliferating endothelial cells. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.
Form/Format	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 at 1.0mg/ml.
Sequence Length	385
Applicable Applications for anti-CD34 antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Localization	Cell surface
Positive Control	KG-1 cells, Tonsil, or Angiosarcoma
Human Chromosomal Location	1q32.2
Immunogen	Detergent solubilized vesicular suspension prepared from human term placenta
Quantity and Buffer	0.5 ml at 200ug/ml with BSA and azide
Preparation and Storage	Store at 2 to 8 degree C. Antibody is stable for 24 months.

IMAGES



Application Data
Formalin-paraffin human tonsil (20X) stained with CD34 MAb (QBEnd/10)



Application Data
Formalin-fixed, paraffin-embedded human tonsil (10X) stained with CD34 MAb (QBEnd/10)

ADDITIONAL INFORMATION

References	1. Ramani P; Bradley NJ; Fletcher CD. QBEND/10, a new monoclonal antibody to endothelium: assessment of its diagnostic utility in paraffin sections. Histopathology, 1990, 17:237-42.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	68342038
NCBI GeneID	947
NCBI Accession #	NP_001020280.1
NCBI GenBank Nucleotide #	NM_001025109.1
UniProt Accession #	P28906; Q15970; Q15971; Q5JTA3; Q5JTA4; Q9UJB1; A8K664
Molecular Weight	90-110kDa
NCBI Official Full Name	hematopoietic progenitor cell antigen CD34 isoform a
NCBI Official Synonym Full Names	CD34 molecule
NCBI Official Symbol	CD34
NCBI Protein Information	hematopoietic progenitor cell antigen CD34; CD34 antigen
UniProt Protein Name	Hematopoietic progenitor cell antigen CD34
UniProt Gene Name	CD34
UniProt Entry Name	CD34_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd34-antibody-clone-qbend-10-immunohistochemistry-immunoprecipitation-western-blot-immunofluorescence-flow-cytometry-elisa/62618>