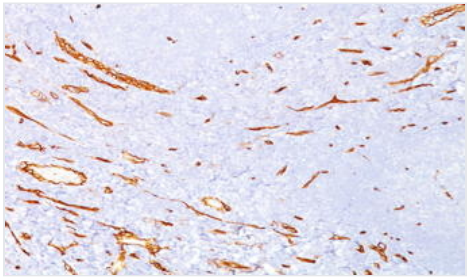
CD34 Antibody – Mouse Monoclonal

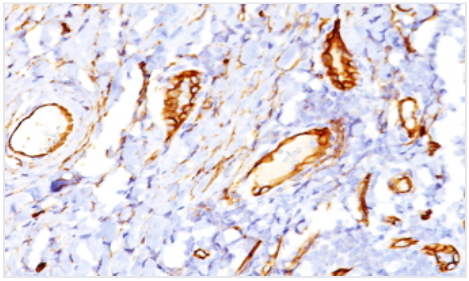
PRODUCT OVERVIEW

Product Name	CD34, Monoclonal Antibody
Full Product Name	CD34 (Hematopoietic Progenitor Cell Antigen, HPCA1, Mucosialin) (APC)
Product Gene Name	anti-CD34 antibody
Product Synonym Names	Hematopoietic Progenitor Cell Antigen; HPCA1; Mucosialin
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	SPM123
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in 10mM PBS. No preservative added. BSA-Free. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes CD34. Species Crossreactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, bovine and canine.
Preparation and Storage	May be stored at 4 degree C before opening. DO NOT FREEZE! Stable at 4 degree C as an undiluted liquid. Dilute only prior to immediate use. Stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer. APC is light sensitive.
Molecular Weight	40,716 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (208059883..208084683, complement). Location: 1q32
OMIM	142230
3D Structure	ModBase 3D Structure for P28906
Immunogen	Detergent solubilized vesicular suspension prepared from human term placenta. Cellular Localization: Cell surface
Conjugate	APC
Positive Control	KG-1 cells, Tonsil, or Angiosarcoma
Special Handling	Light sensitive
Product Categories/Family for anti-CD34 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD34 antibody	Flow Cytometry (FC/FACS), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-CD34 antibody	FC/FACS: 0.5-1ug/million cells IP: 0.5-1ug/500ug protein lysate IF: 0.5-1ug/ml WB: 0.25-0.5ug/ml IHC: 0.5-1ug/ml for 30 minutes at RT Applications are based on unconjugated antibody.
Related Product Information for anti-CD34 antibody	MBS6123941 is an antibody targeting CD34. Also known as CD34 (Hematopoietic Progenitor Cell Antigen, HPCA1, Mucosialin) (APC). Reactive in Human. Host: Mouse.

Product References and Citations for anti-CD34 antibody	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.
Other Notes	Small volumes of anti-CD34 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-CD34 antibody
Formalin-paraffin human tonsil (10X) stained with CD34 MAb (SPM123)



Immunohistochemistry (IHC) of anti-CD34 antibody
Formalin-paraffin human tonsil (20X) stained with CD34 MAb (SPM123)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD34. It may not necessarily be applicable to this product.

NCBI GI #	264769
NCBI GeneID	947
NCBI Accession #	AAB25223.1
UniProt Primary Accession #	P28906
UniProt Secondary Accession #	Q15970; Q15971; Q5JTA3; Q5JTA4; Q9UJB1; A8K664
UniProt Related Accession #	P28906
NCBI Official Full Name	CD34
NCBI Official Synonym Full Names	CD34 molecule
NCBI Official Symbol	CD34
UniProt Protein Name	Hematopoietic progenitor cell antigen CD34
Protein Family	Hematopoietic progenitor cell antigen
UniProt Gene Name	CD34
UniProt Entry Name	CD34_HUMAN
NCBI Protein Information	hematopoietic progenitor cell antigen CD34; CD34 antigen
NCBI Summary for CD34	The protein encoded by this gene may play a role in the attachment of stem cells to the bone marrow extracellular matrix or to stromal cells. This single-pass membrane protein is highly glycosylated and phosphorylated by protein kinase C. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

UniProt Comments for CD34	CD34: 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. Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues. Belongs to the CD34 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell surface Chromosomal Location of Human Ortholog: 1q32 Cellular Component: intercellular bridge; lysosome; integral to plasma membrane; perinuclear region of cytoplasm; cytoplasm; apical plasma membrane; basal plasma membrane; plasma membrane; external side of plasma membrane Molecular Function: sulfate binding; carbohydrate binding; transcription factor binding Biological Process: positive regulation of odontogenesis; regulation of immune response; negative regulation of nitric oxide biosynthetic process; glomerular filtration; cell motility involved in cell locomotion; negative regulation of blood coagulation; negative regulation of tumor necrosis factor production; signal transduction; positive regulation of interleukin-10 production; cell proliferation; cell-cell adhesion; positive regulation of angiogenesis; endothelial cell proliferation; regulation of blood pressure; tissue homeostasis; hemopoiesis; leukocyte migration
Research Articles on CD34	**1.** CD34 expression on blasts is a novel, poor predictor independent of FlT3-ITD in NPM1-mutated acute myeloid leukemia patients.
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