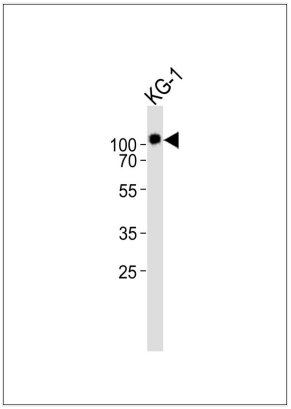
CD34 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD34, Polyclonal Antibody
Full Product Name	CD34 Antibody (C-term)
Product Gene Name	anti-CD34 antibody
Product Synonym Names	Hematopoietic progenitor cell antigen CD34; CD34; CD34
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Mouse)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This CD34 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 320-354 amino acids from the C-terminal region of human CD34.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CD34 peptide (MBS9229563) is used for blocking the activity of CD34 antibody (MBS9206261)
Molecular Weight	40716
OMIM	142230
3D Structure	ModBase 3D Structure for P28906
Crown Antibody	Yes
Antigen Source	HUMAN
Product Categories/Family for anti-CD34 antibody	Signal Transduction; Neuroscience; Metabolism; Cell Biology; Cardiovascular; Cancer; Autophagy
Applications Tested/Suitable for anti-CD34 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CD34 antibody	WB~~1:1000
Related Product Information for anti-CD34 antibody	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.
Product References and Citations for anti-CD34 antibody	Simmons D.L.,et al.J. Immunol. 148:267-271(1992). Satterthwaite A.B.,et al.Genomics 12:788-794(1992). Nakamura Y.,et al.Exp. Hematol. 21:236-242(1993). Freund D.,et al.Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004).

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.
Searchable Terms for CD34 purchase	MBS9206261 is an antibody targeting CD34. Also known as CD34 Antibody (C-term). Reactive in Human (Predicted Reactivity: Mouse). Host: Rabbit.



Western Blot (WB) of anti-CD34 antibody
Western blot analysis of lysate from KG-1 cell line, using CD34 Antibody (C-term). MBS9206261 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

ADDITIONAL DETAILS

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

NCBI GI #	68342038
NCBI GeneID	947
NCBI Accession #	NP_001020280.1
UniProt Primary Accession #	P28906
UniProt Secondary Accession #	Q15970; Q15971; Q5JTA3; Q5JTA4; Q9UJB1; A8K664
UniProt Related Accession #	P28906
GenBank Nucleotide #	NM_001025109.1
NCBI Official Full Name	hematopoietic progenitor cell antigen CD34 isoform a
NCBI Official Synonym Full Names	CD34 molecule
NCBI Official Symbol	CD34
UniProt Protein Name	Hematopoietic progenitor cell antigen CD34
UniProt Synonym Protein Names	CD_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
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; perinuclear region of cytoplasm; integral to plasma membrane; apical plasma membrane; cytoplasm; 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.** Angiogenic factors VEGF, HIF-1alpha and CD34 are important in breast cancer progression and their abundance in breast tumors has prognostic and predictive value.
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