CD34 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD34, Recombinant Protein
Full Product Name	Recombinant Human CD34 Sf9
Product Gene Name	CD34 recombinant protein
Product Synonym Names	CD34 Human, Sf9; CD34 molecule; Hematopoietic progenitor cell antigen CD34; CD34 Antigen; CD34; CD34 Human Recombinant, Sf9
Sequence	ADL SLDNNGT ATPELPTQGT FSNVSTNVSY QETTTPSTLG STSLHPVSQH GNEATTNITE TTVKFTSTSV ITSVYGNTNS SVQSQTSVIS TVFTTPANVS TPETTLKPSL SPGNVSDLST TSTSLATSPT KPYTSSSPIL SDIKAEIKCS GIREVKLTQG ICLEQNKTSS CAEFKKDRGE GLARVLCGEE QADADAGAQV CSLLLAQSEV RPQCLLLVLA NRTEISSKLQ LMKKHQSDLK KLGILDFTEQ DVASHQSYSQ KTHHHHH H.
Host	Sf9, Baculovirus cells
Form/Format	Sterile filtered colorless solution. CD34 protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Molecular Weight	35,011 Da
OMIM	M81104 mRNA
3D Structure	ModBase 3D Structure for P28906
Product Categories/Family for CD34 recombinant protein	Recombinant & Natural Proteins
Related Product Information for CD34 recombinant protein	Description: CD34 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 268 amino acids (32-290a.a.) and having a molecular mass of 28.6kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CD34 is fused with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques. Introduction: CD34 is a single chain transmembrane glycoprotein which is selectively expressed on human lymphoid and myeloid hemapoietic progenitor cells. CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.
Other Notes	Small volumes of CD34 recombinant protein 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	MBS146936 is a recombinant protein targeting CD34. Also known as Recombinant Human CD34 Sf9. Host: Sf9, Baculovirus cells.

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
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: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 1q32.2 Cellular Component: apical plasma membrane; basal plasma membrane; cytoplasm; external side of plasma membrane; integral to plasma membrane; intercellular bridge; lysosome; perinuclear region of cytoplasm; plasma membrane Molecular Function: carbohydrate binding; transcription factor binding Biological Process: cell motility involved in cell locomotion; cell proliferation; cell-cell adhesion; cell-matrix adhesion; endothelial cell proliferation; glomerular filtration; hemopoiesis; leukocyte migration; negative regulation of blood coagulation; negative regulation of nitric oxide biosynthetic process; negative regulation of tumor necrosis factor production; positive regulation of angiogenesis; positive regulation of interleukin-10 production; positive regulation of odontogenesis; regulation of blood pressure; regulation of immune response; signal transduction; tissue homeostasis
Research Articles on CD34	**1.** There was significant correlation between age and tumor size with CD34 expression in oral SCC samples and no significant correlation between sex and tumor differentiation level. Also, there was no significant correlation between age, sex, tumor size and tumor differentiation level (grading) with CD34 expression in esophagus SCC samples.
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