CD34 Recombinant Antibody – Monoclonal

PRODUCT OVERVIEW

Product Name	CD34, Recombinant Antibody
Full Product Name	Anti-CD34 [My10]
Product Gene Name	CD34 recombinant antibody
Product Synonym Names	Hematopoietic progenitor cell antigen CD34; CD34
Clonality	Monoclonal
Isotype	Mouse IgG1, kappa
Clone Number	My10
Species Reactivity	Human
Purity/Purification	Purified Protein A Affinity Purified
Specificity	Human CD34, an ~105 - 120 kDa type 1 transmembrane glycoprotein expressed on thesurface of most human hematopoietic stem and progenitor cells (HSPCs) as well as on mesenchymalstem cells, embryonic fibroblasts, endothelial cells, neurons, and some tumor cell lines.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	35,011 Da
OMIM	142230
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Immunogen	KG-1a Human myeloblastic leukemic cell line (immature human myeloid cell line)from a patient with nonlymphocytic leukemia.
Antigen	CD34
Antigen Description	KG-1a Human myeloblastic leukemic cell line (immature human myeloid cell line) from a patient with nonlymphocytic leukemia.
Buffer Composition	PBS only with 0.02% Proclin 300.
Publication Note	Describes the making of the antibody,shows it recognised ~115kDa My10 protein using immunoprecipitation and flow cytometry.
Product Categories/Family for CD34 recombinant antibody	Immunology; Cancer; Cell adhesion
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD34 recombinant antibody	Flow Cytometry (FC/FACS), Immunoprecipitation (IP), Immunohistochemistry (IHC)
Related Product Information for CD34 recombinant antibody	Recombinant monoclonal antibody to CD34. Manufactured using Recombinant Platform with variable regions (i.e. specificity) from the hybridoma My10.
Product References and Citations for CD34 recombinant antibody	Civin CI, Strauss LC, Brovall C, Fackler MJ, Schwartz JF, Shaper JH. J Immunol. 1984Jul;133(1):157-65. PMID:6586833

Other Notes	Small volumes of CD34 recombinant 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	MBS488219 is a recombinant antibody targeting CD34. Also known as Anti-CD34 [My10]. Reactive in Human.

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 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
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	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.
Research Articles on CD34	**1.** CD34(+) and CD34(-) cells are different phenotypes of similar cells, and CD34 (1) can be regulated in endothelial colony-forming cells ECFC; (2) is positively involved in capillary-like sprout formation; (3) is associated but not causally related to tip-cell gene expression; and (4) can affect endothelial barrier function.
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