

CD34 recombinant antibody

Anti-CD34 [My10]

CATALOG # AAA71961	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Immunoprecipitation, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD34; Monoclonal Recombinant Antibody; Anti-CD34 [My10]; Hematopoietic progenitor cell antigen CD34; CD34 recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	My10
Specificity	Human CD34, an ~105 - 120 kDa type 1 transmembrane glycoprotein expressed on the surface of most human hematopoietic stem and progenitor cells (HSPCs) as well as on mesenchymal stem cells, embryonic fibroblasts, endothelial cells, neurons, and some tumor cell lines.
Purity/Purification	Purified Protein A Affinity Purified
Sequence Length	328
Applicable Applications for CD34 recombinant antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)
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.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Publication Note	Describes the making of the antibody, shows it recognised ~115kDa My10 protein using immunoprecipitation and flow cytometry.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



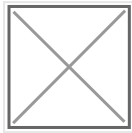
WB (Western Blot)

Western Blot using anti-CD34 antibody My10 Jurkat cell extract (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of My10 at 0.1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for the canonical isoform of CD34 is 40.9kDa, though a second isoform at 35.2kDa is also present, with a 56 amino acid truncation at the C-terminus of the protein (Uniprot ID: Q64314). CD34 is also glycosylated at several positions. successfully detected both isoforms of human CD34.



IHC (Immunohistochemistry)

Immunohistochemical staining of human placenta tissue using anti-CD34 antibody My10 Anti-CD34 staining of paraffin embedded human placenta tissue using the rabbit-chimeric version of My10 for 20 mins followed by DAB (3,3'-diaminobenzidine), and counter-staining with haemotoxylin. Strong endothelial staining of within villi may be observed. Recommended concentration, 2-4 ug/ml.



FCM/FACS (Flow Cytometry)

Flow-cytometry using anti-CD34 antibody My10 Human leukocytes were stained with an isotype control or the rabbit-chimeric version of My10 at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

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 Categories/Family for CD34 recombinant antibody	Immunology; Cancer; Cell adhesion
References	Civin CI, Strauss LC, Brovall C, Fackler MJ, Schwartz JF, Shaper JH. J Immunol. 1984Jul;133(1):157-65. PMID:6586833

NCBI AND UNIPROT INFORMATION

NCBI GI #	264769
NCBI GeneID	947
Molecular Weight	35,011 Da
NCBI Official Full Name	CD34
NCBI Official Synonym Full Names	CD34 molecule
NCBI Official Symbol	CD34
NCBI Protein Information	hematopoietic progenitor cell antigen CD34
UniProt Protein Name	Hematopoietic progenitor cell antigen CD34
UniProt Gene Name	CD34

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.