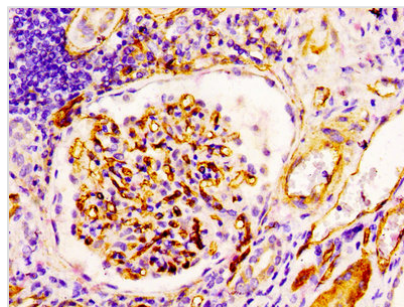




CD34 Antibody

Product Code	CSB-RA004926A0HU
Abbreviation	Hematopoietic progenitor cell antigen CD34
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P28906
Immunogen	A synthesized peptide
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:500
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Hematopoietic progenitor cell antigen CD34, CD34, CD34
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	CD34
Clone No.	1E7

Image



IHC image of CSB-RA004926A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Description

The CD34 recombinant monoclonal antibody is a highly specific antibody



against the CD34 protein from human sources. This CD34 antibody was expressed by transfecting the human CD34 monoclonal antibody gene-vector clones into the cell line for in vitro production and subsequent purification from the tissue culture supernatant (TCS) through affinity-chromatography. Its isotype matches with the rabbit IgG. This CD34 antibody can be used in ELISA and IHC applications.

In preparation for bone-marrow transplantation, CD34 has been widely used as a marker to aid in the identification and isolation of hematopoietic stem cells (HSCs) and progenitors. It's also becoming more popular as a marker for identifying other tissue-specific stem cells, such as muscle satellite cells and epidermal precursors. CD34 is thought to boost progenitor cell proliferation while blocking its differentiation, and podocalyxin and CD34 work together to improve hematopoietic cell trafficking and migration.