

Anti-CD34 Antibody

Catalog # ABO10660

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P28906
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Hematopoietic progenitor cell antigen CD34(CD34) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	947
Other Names	Hematopoietic progenitor cell antigen CD34, CD34, CD34
Calculated MW	40716
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Mouse, Rat, Human Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues.
Source	Eukaryota
Protein Name	Hematopoietic progenitor cell antigen CD34
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CD34(366-382aa QATSRNGHSARQHVVAD), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the CD34 family.

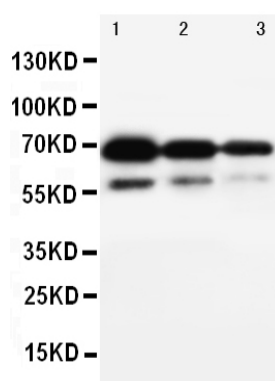
Protein Information

Name	CD34
Function	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.
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues

Background

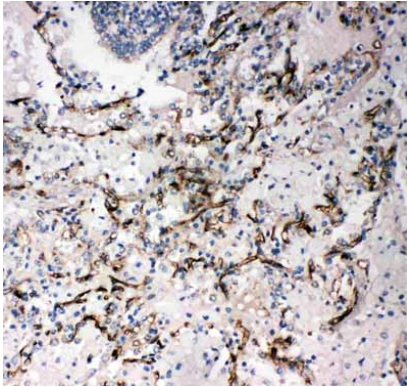
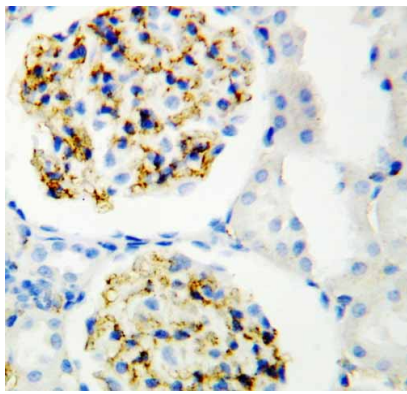
CD34 is a monomeric cell surface antigen with a molecular mass of approximately 110 KD. CD34 is expressed in humans in hematopoietic stem cells, vascular endothelium, and blasts from 30% of patients with acute myeloid and lymphocytic leukemia. The human CD34 gene spans 26 kb and has 8 exons, a structure quite similar to that of the murine gene. By Southern blot analysis of DNA from a panel of human x mouse somatic cell hybrids using a CD34 cDNA probe demonstrate that the gene for CD34 is located on human chromosome 1 in the 1q12---qter region. CD34 plays an important role in the formation of progenitor cells during both embryonic and adult hematopoiesis.

Images

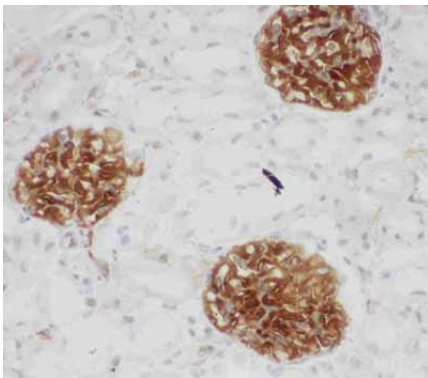


Anti-CD34 antibody, ABO10660, Western blotting
Lane 1:
Recombinant Human CD34 Protein 10ng
Lane 2:
Recombinant Human CD34 Protein 5ng
Lane 3:
Recombinant Human CD34 Protein 2.5ng

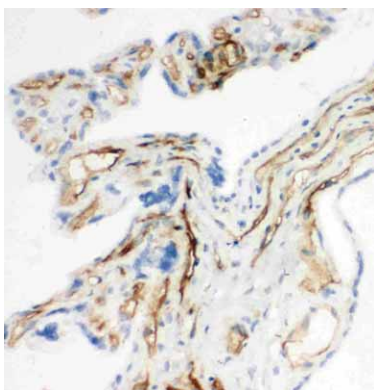
Anti-CD34 antibody, ABO10660, IHC(P)
IHC(P): Rat Kidney Tissue



Anti-CD34 antibody, ABO10660, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti-CD34 antibody, ABO10660, IHC(F)IHC(F): Rat Kidney Tissue



Anti-CD34 antibody, ABO10660, IHC(F)IHC(F): Rat Placenta Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.