

Basic Information

Product Name	Anti-CD34 Antibody	
Gene Name	CD34	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse ,rat	
Tested Application	WB, IHC	
Contents	500ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CD34(369-381aa SRNGHSARQHVVA).	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	105-120KD	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

Reference

Anti-CD34 Antibody被引用在13文献中。

Selected Validation Data

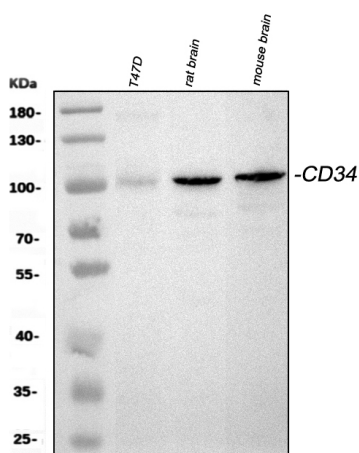


Figure 1. Western blot analysis of anti- CD34 antibody (BA3414). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human T47D whole cell lysates,
Lane 2: rat brain tissue lysates,
Lane 3: mouse brain tissue lysates.
Use rabbit anti- CD34 1:1000, probed with a goat anti-rabbit IgG- HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CD34 at approximately 105-120KD. The expected band size for CD34 is at 41KD.

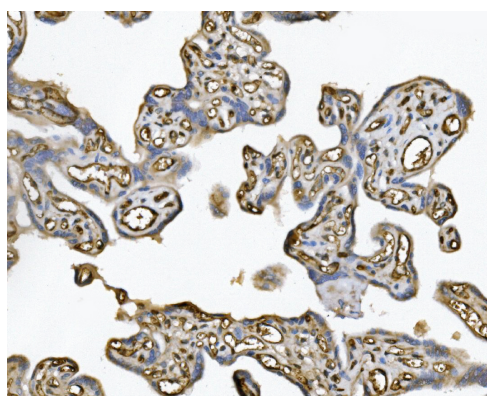


Figure 2. IHC analysis using anti- CD34 antibody (BA3414). detected in paraffin-embedded section of human placenta tissue. Peroxidase Conjugated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.