

## Basic Information

Product Name	Anti-CD34 Antibody	
Gene Name	CD34	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, IHC, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% NaN <sub>3</sub> , 1 mg BSA and 50% glycerol.	
Immunogen	E.coli-derived rat CD34 recombinant protein (Position: S170-L386).	
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 ELISA: 1:100-1000	

## 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1文献中。

## Selected Validation Data

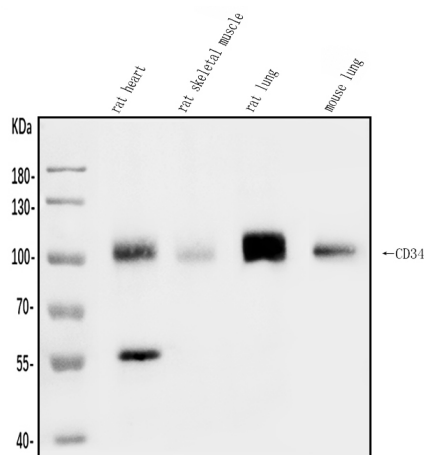


Figure 1. Western blot analysis of anti- Cd34 antibody (A00885-1). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat heart tissue lysates, Lane 2: rat skeletal muscle tissue lysates, Lane 3: rat lung tissue lysates, Lane 4: mouse lung tissue lysates. Use 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 105KD. The expected band size for Cd34 at 105KD.

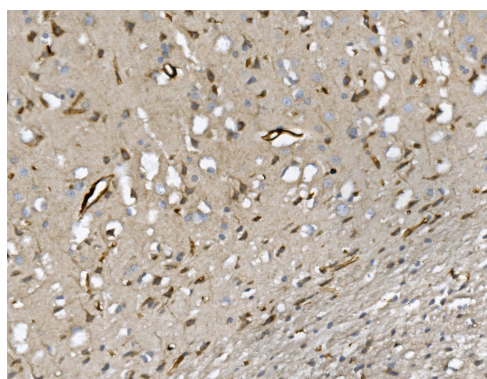


Figure 2. IHC analysis using anti- Cd34 antibody (A00885-1). detected in paraffin-embedded section of rat brain tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.