Product Information Sheet

Polyclonal Anti- CD34

Catalogue No. PA1334

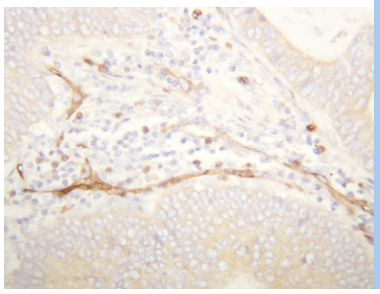
Lot No. 0131012223499

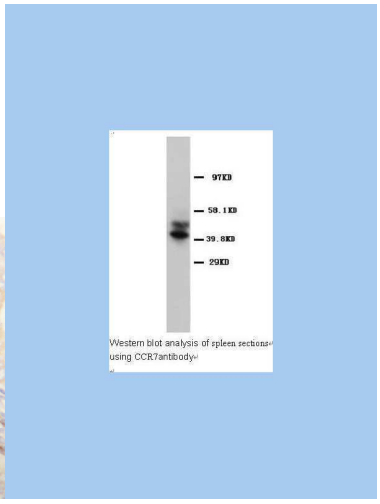
Ig type rabbit IgG

Size 100µg/vial

Specificity
Human, mouse,rat
No cross reactivity with other proteins.

Recommended application
Western blot
Immunohistochemistry(P)
Immunohistochemistry(F)





Immunogen
A synthetic peptide corresponding to a sequence at the N-terminal of human CD34 (366-382 aa), identical to the related mouse and rat sequence.

Purity
Immunogen affinity purified.

Application

	Concen-tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat, Ms	-	-
IHC-P	1µg/ml	Hu,Rat,Ms	-	By Heat
IHC-F	1µg/ml	Rat,Ms	-	-
ICC	-	-	-	-

Other applications have not been tested.
Optimal dilutions should be determined by end user.

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution
0.2ml of distilled water will yield a concentration of 500µg/ml.

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 longer time.

To reorder contact us at:
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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.[1] 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.[2] CD34 plays an important role in the formation of progenitor cells during both embryonic and adult hematopoiesis.[3]

REFERENCE

1、Satterthwaite, A. B., Burn, T. C., Le Beau, M. M., Tenen, D. G. Structure of the gene encoding CD34, a human hematopoietic stem cell antigen. Genomics 12: 788-794, 1992.

2、Tenen, D. G., Satterthwaite, A. B., Borson, R., Simmons, D., Eddy, R. L., Shows, T. B. Chromosome 1 localization of the gene for CD34, a surface antigen of human stem cells. Cytogenet. Cell Genet. 53: 55-57, 1990.

3、Cheng, J., Baumhueter, S., Cacalano, G., Carver-Moore, K., Thibodeaux, H., Thomas, R., Broxmeyer, H. E., Cooper, S., Hague, N., Moore, M., Lasky, L. A. Hematopoietic defects in mice lacking the sialomucin CD34. Blood 87: 479-490, 1996.