


Rabbit Anti-CD34 antibody

SL0646R

Product Name:	CD34
Chinese Name:	CD34抗体
Alias:	CD34 antigen; CD34 molecule; Cluster designation 34; Hematopoietic progenitor cell antigen CD34; HPCA1; CD34 HUMAN.
文献引用  :	Specific References(8) SL0646R has been referenced in 8 publications. [IF=4.47] Erin, Nuray, et al. "Differential characteristics of heart, liver, and brain metastatic subsets of murine breast carcinoma." Breast Cancer Research and Treatment (2013): 1-13. Mouse. PubMed:23760857
	[IF=2.15] Zeng, Chao, et al. "Prostate-specific membrane antigen: a new potential prognostic marker of osteosarcoma." Medical Oncology 29.3 (2012): 2234-2239. IHC-P;Human. PubMed:22009216
	[IF=0.94] Bi, Lingyun, et al. "Effect of bone marrow stem cell mobilisation on the expression levels of cellular growth factors in a rat model of acute tubular necrosis." Experimental and Therapeutic Medicine. IHC-P;Rat. PubMed:26622364
	[IF=2.81] Sun, Wei, et al. "Adipose-Derived Stem Cells Alleviate Radiation-Induced Muscular Fibrosis by Suppressing the Expression of TGF-1." (2015) Stem Cells International FCM;Rabbit. PubMed:26649050
	[IF=0.78] Zhang, Q. L., et al. "Expression and localization of the vascular endothelial

	<p>growth factor and changes of microvessel density during hair follicle development of liaoning cashmere goats." Genet Mol Res 12.12 (2013): 6424-6432.IHC-P;Goat.</p> <p style="text-align: center;">PubMed:24390991</p> <p>[IF=0.73] Yu, Z., et al. "Sonic hedgehog and retinoic Acid induce bone marrow-derived stem cells to differentiate into glutamatergic neural cells." Journal of immunoassay & immunochemistry 36.1 (2015): 1.FCM;Rat.</p> <p style="text-align: center;">PubMed:24547891</p> <p>[IF=1.28] Huang, Sheng?Li, Jian Jiao, and Hong?Wei Yan. "Hydrogen-rich saline attenuates steroid-associated femoral head necrosis through inhibition of oxidative stress in a rabbit model." Experimental and therapeutic medicine 11.1 (2016): 177-182.IHC-P;Rabbit.</p> <p style="text-align: center;">PubMed:26889236</p> <p>[IF=1.00] Guo, Jian-wen, et al. "Combinatorial effects of Naomai Yihao Capsules () and vascular endothelial growth factor gene-transfected bone marrow mesenchymal stem cells on angiogenesis in cerebral ischemic tissues in rats." Journal of Traditional Chinese Medicine 32.1 (2012): 87-92.IHC-P;Rat.</p> <p style="text-align: center;">PubMed:22594109</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Dog, Pig, Cow, Rabbit,
Applications:	<p>WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1µg/Test IF=1:200-800 (Paraffin sections need antigen repair)</p> <p>not yet tested in other applications.</p> <p>optimal dilutions/concentrations should be determined by the end user.</p>
Molecular weight:	39kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CD34:301-385/385<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

The highly glycosylated 75-120 kD antigen CD34 is possibly an adhesion molecule with a putative role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. It 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. CD34 is thought to have a role in presenting carbohydrate ligands to selectins. The intracellular chain of the CD34 antigen is a site of phosphorylation by activated protein kinase C, suggesting a putative role in signal transduction. Two isoforms of CD34 have been reported to be generated by alternative splicing. CD34 is highly expressed on hematopoietic progenitors, as well as on endothelial cells, brain, and testis. Staining for CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.

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.

Subcellular Location:

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.

Post-translational modifications:

Highly glycosylated.

Phosphorylated on serine residues by PKC.

Similarity:

Belongs to the CD34 family.

SWISS:

P28906

Gene ID:

947

Database links:

[Entrez Gene: 947](#)Human

[Omim: 142230](#)Human

[SwissProt: P28906](#)Human

Product Detail:

[Unigene: 374990](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

造血Stem cellsMaker

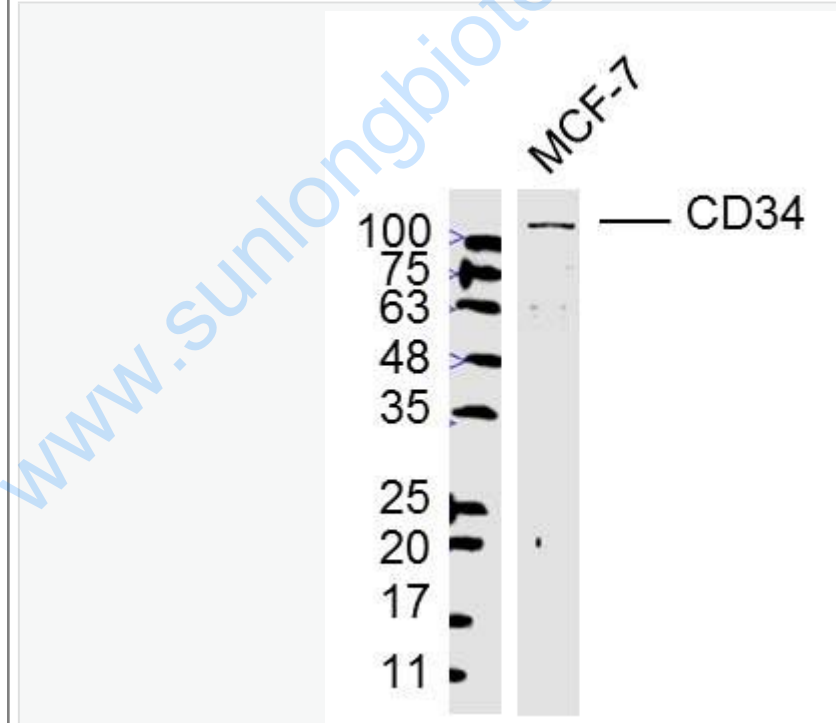
内皮Maker

Tumour生物Maker

细胞表面的唾液粘蛋白。

间充质Stem cells (mesenchymal stem cells, MSC) 也是Stem cells家族的重要成员, 来源于发育早期的中胚层和外胚层。MSC最初在骨髓中发现, 因其具有多向分化潜能、造血支持和促进Stem cells植入、免疫调控和自我复制等特点。如间充质Stem cells在体内或体外特定的诱导条件下, 可分化为血管内皮、脂肪、骨、软骨、肌肉、肌腱、韧带、神经、肝、心肌、等多种组织细胞。

Picture:



Sample:

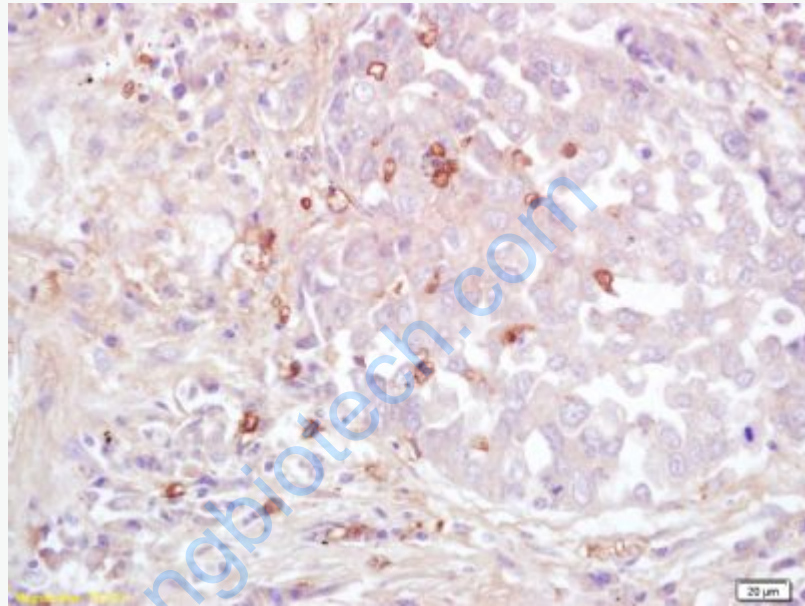
MCF-7(Human) Cell Lysate at 40 ug

Primary: Anti-CD34 (SL0646R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 39 kD

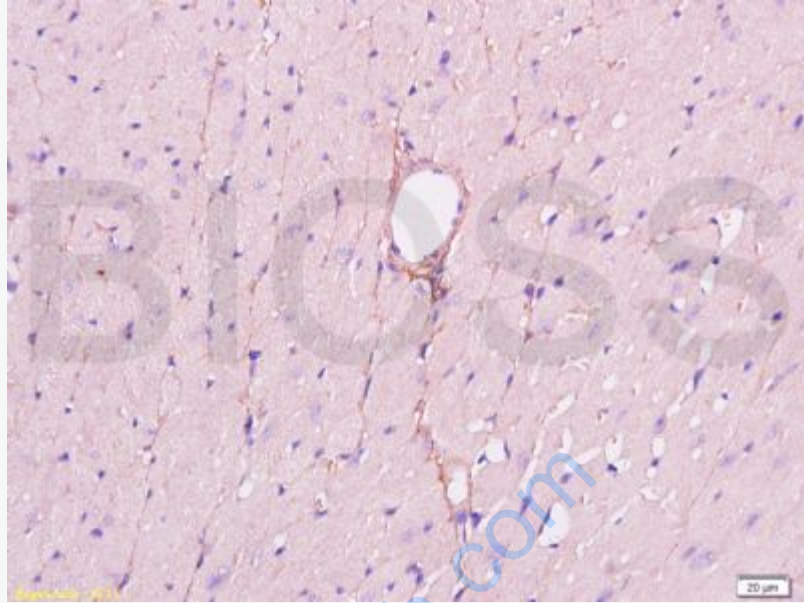
Observed band size: 115 kD



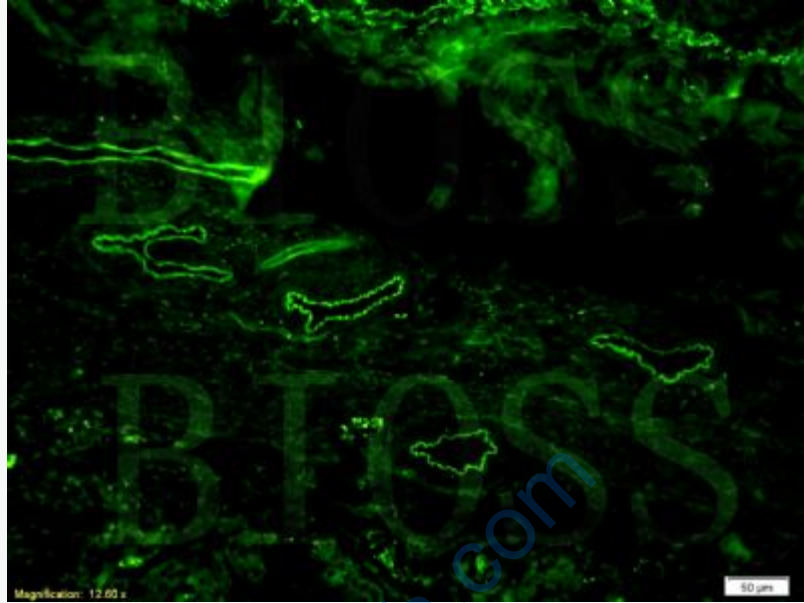
Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD34 Polyclonal Antibody, Unconjugated(SL0646R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-CD34 Polyclonal Antibody, Unconjugated(SL0646R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

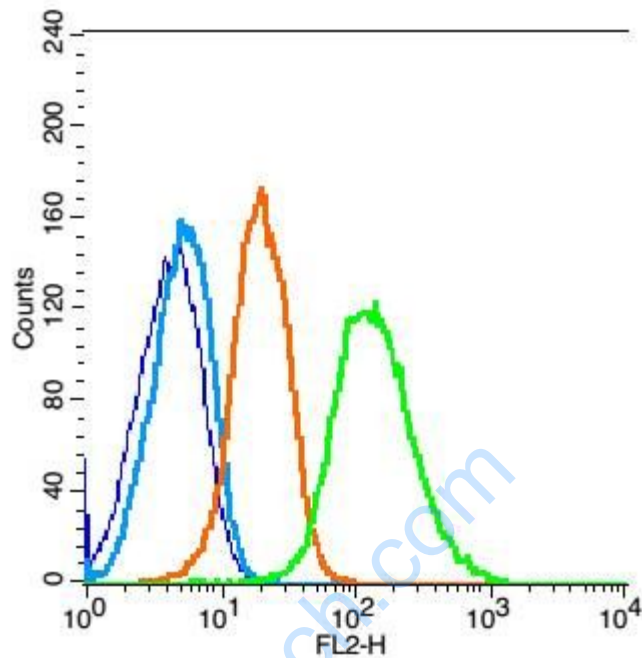


Tissue/cell: human gastric adenocarcinoma;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD34 Polyclonal Antibody, Unconjugated(SL0646R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, AF488 conjugated(SL0646R)used at 1:200 dilution for 40 minutes at 37°C.



Blank control: Raji(blue).

Primary Antibody:Rabbit Anti- CD34 antibody(SL0646R), Dilution: 1 μ g in 100 μ L
1X PBS containing 0.5% BSA;

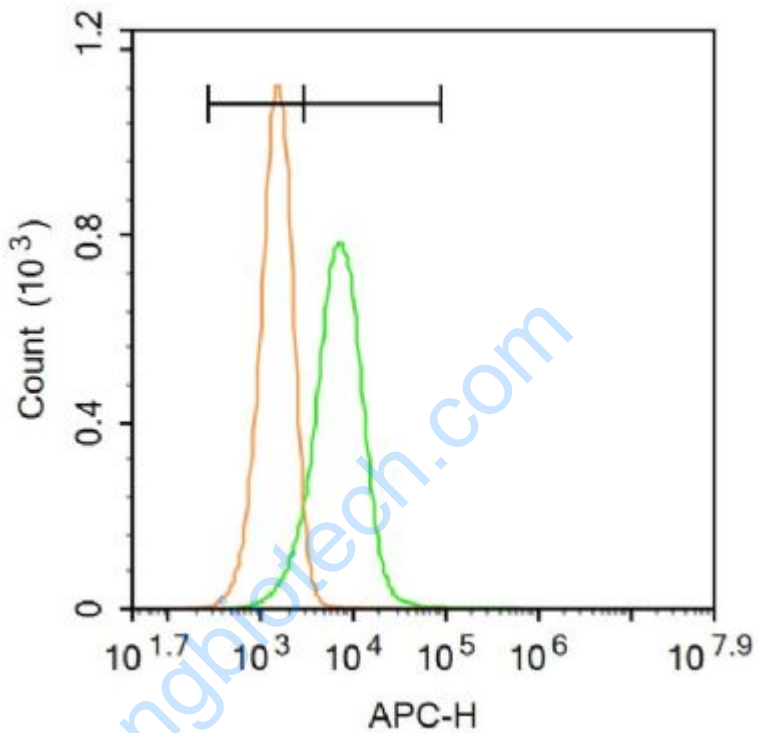
Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X
PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min). Antibody (SL0646R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of bs-0646R at 1/200 dilution for 30 min on

ice. Acquisition of 20,000 events was performed.



Blank control: HUVEC.

Primary Antibody (green line): Rabbit CD34 antibody (SL0646R)

Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: 1 μ g /test.

Protocol

The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room

	temperature. Acquisition of 20,000 events was performed.
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