

**bs-0646R****[ Primary Antibody ]****CD34 Rabbit pAb****Bioss**  
**ANTIBODIES**

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**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 947**SWISS:** P28906**Target:** CD34**Immunogen:** KLH conjugated synthetic peptide derived from human CD34: 301-385/385.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

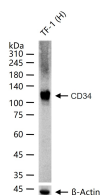
**Background:** The highly glycosylated 75-120 kD antigen CD34 is possibly an adhesion molecule with a putative role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. It could act as a scaffold for the attachment of 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.

**Applications:** WB (1:500-2000)  
**IHC-P** (1:100-500)  
**IHC-F** (1:100-500)  
**IF** (1:100-500)  
**IP** (1:20-50)

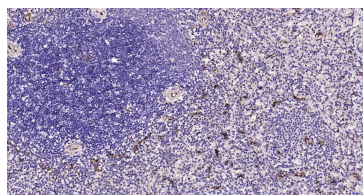
**Reactivity:** Human, Mouse, Rat

**Predicted**  
**MW.:** 39 kDa

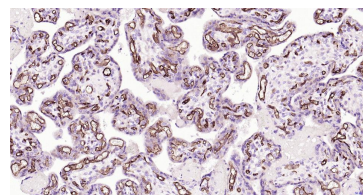
**Subcellular**  
**Location:** Cell membrane

**VALIDATION IMAGES**

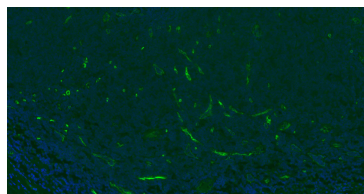
25 ug total protein per lane of various lysates (see on figure) probed with CD34 polyclonal antibody, unconjugated (bs-0646R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



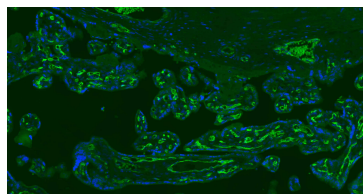
Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD34 Polyclonal Antibody, Unconjugated (bs-0646R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD34 Polyclonal Antibody, Unconjugated (bs-0646R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD34 Polyclonal



Paraformaldehyde-fixed, paraffin embedded Human Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CD34 Polyclonal

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

Antibody, Unconjugated (bs-0646R) at 1:100 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-0295G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Antibody, Unconjugated (bs-0646R) at 1:100 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-0295G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

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## — SELECTED CITATIONS —

- **[IF=12.7]** Fangyu Qiao. et al. Growth factor collected cell membrane-functionalized matrix for vascular-innervated bone regeneration. COMPOSITES PART B-ENGINEERING. 2025 Feb;291:112019 IF ;Rat. 10.1016/j.compositesb.2024.112019
- **[IF=13.3]** Fangyu Qiao. et al. Dual siRNA-Loaded Cell Membrane Functionalized Matrix Facilitates Bone Regeneration with Angiogenesis and Neurogenesis. SMALL. 2023 Oct;2307062 WB,IF,IHC ;Rat. 37824284
- **[IF=10.652]** Pei Liu. et al. Biphasic CK2.1-coated  $\beta$ -glycerophosphate chitosan/LL37-modified layered double hydroxide chitosan composite scaffolds enhance coordinated hyaline cartilage and subchondral bone regeneration. Chem Eng J. 2021 Aug;418:129531 IHC ;Rabbit. 10.1016/j.cej.2021.129531
- **[IF=10.652]** Zhuo Liang. et al. Exosome derived from mesenchymal stem cells mediates hypoxia-specific BMP2 gene delivery and enhances bone regeneration. Chem Eng J. 2021 Oct;422:130084 IF ;Rabbit. 10.1016/j.cej.2021.130084
- **[IF=11.322]** Zhenyin Chen. et al. Gelatin/sodium alginate composite hydrogel with dynamic matrix stiffening ability for bone regeneration. COMPOS PART B-ENG. 2022 Aug;243:110162 IF ;Rat. 10.1016/j.compositesb.2022.110162