

# Active Recombinant Human CD34, His-tagged, Biotinylated

**Cat. No.** CD34-572H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | The recombinant human CD34 ECD protein is expressed as a 280-amino acid protein consisting of Ser32 - Thr290 region of (UniProt accession #P28906) and a C-terminal His-tag. It contains 9 potential N-linked glycosylation sites.                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 32-290 a.a.                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>             | Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).                                                                                                                                                 |
| <b>Bio-activity</b>     | Interacts with L-selectin and supports the adhesion of the human umbilical vein endothelial cell line (HUVEC). Binds anti-CD34 monoclonal antibodies, human IgG1 and rabbit IgG by ELISA with this immobilized protein.                                                                                       |
| <b>Molecular Mass</b>   | Calculated molecular mass (kDa): 30; Estimated by SDS-PAGE under reducing condition (kDa): 75-90 suggesting that the protein may be heavily glycosylated.                                                                                                                                                     |
| <b>AA Sequence</b>      | SLDNNGTATPELPTQGTFSNVSTNVSYQETTTTPSTLGSTSLHPVSQHGNEATTNITE<br>TTVKFTSTSVITSVYGNT NSSVQSQTSVISTVFTTPANVSTPETTLKPSLSPGNVSDL<br>STTSTSLATSPTKPYTSSSPILSDIKAEIKCSGI REVKLTQGICLEQNKTSSCAEFKKD<br>RGEGLARVLCGEEQADADAGAQVCSLLLAQSEVRPQCLLLVLNARTEIS SKLQLMK<br>KHQSDLKKLGILDFTEQDVASHQSYSQKTSTTENLYFQGSGTGHHHHHHHH |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>        | <0.1 eu per 1 µg of purified recombinant protein determined by the                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >92% judged by SDS-PAGE under reducing condition                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>          | The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles. |
| <b>Conjugation</b>      | Biotin                                                                                                                                                                                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | CD34 CD34 molecule [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>  | CD34                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | CD34; CD34 molecule; CD34 antigen; hematopoietic progenitor cell antigen CD34;                                                                                                                                                                                                                                                                      |
| <b>Gene ID</b>          | 947                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>      | NM_001025109                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>   | NP_001020280                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>              | 142230                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>       | P28906                                                                                                                                                                                                                                                                                                                                              |
| <b>Chromosome</b>       | 1q32                                                                                                                                                                                                                                                                                                                                                |

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| Location |                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pathway  | Adaptive Immune System, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem; |
| Function | carbohydrate binding; sulfate binding; transcription factor binding;                                                                                                                                                                                                                                                                                                                          |

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