Human CD34 Protein (His Tag)

Catalog Number: 10103-H08H



General Information

Gene Name Synonym:

CD34

Protein Construction:

A DNA sequence encoding the extracellular domain of human CD34 precursor (NP_001020280.1) (Met 1-Thr 290) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

 $< 1.0 \; EU \; per \; \mu g$ of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt $\,$ at -70 $\,$ $^{\circ}$ C

Predicted N terminal: Ser 32

Molecular Mass:

The secreted recombinant human CD34 consists of 270 amino acids after removal of the signal peptide and has a predicted molecular mass of 29 kDa. In SDS-PAGE under reducing conditions, rh CD34 migrates with the apparent molecular mass between 40 and 50 kDa due to different glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

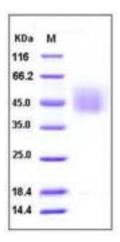
Store it under sterile conditions at $-20\,^{\circ}\mathrm{C}$ to $-80\,^{\circ}\mathrm{C}$ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Cluster of Differentiation 34 (CD34) is a member of a family of single-pass transmembrane sialomucin proteins, and may function as a cell-cell adhesion factor. CD34 protein is selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues. It has been widely used as a stem and progenitor cell marker, and clinical CD34+ stem cell transplantation (CD34+SCT) has been performed for tumor purging. CD34 monoclonal antibodies are widely used to identify and isolate hemopoietic progenitors and to classify acute and chronic leukemias

References

1.Hogan CJ, et al. (2002) Differential long-term and multilineage engraftment potential from subfractions of human CD34+ cord blood cells transplanted into NOD/SCID mice. Proc Nat Acad Sci USA. 99 (1): 413-8. 2.Nielsen JS,et al. (2009) CD34 is a key regulator of hematopoietic stem cell trafficking to bone marrow and mast cell progenitor trafficking in the periphery. Microcirculation. 16(6): 487-96. 3.Mastrandrea F,et al. (2009) CD34+ hemopoietic precursor and stem cells traffic in peripheral blood of celiac patients is significantly increased but not directly related to epithelial damage severity. Eur Ann Allergy Clin Immunol. 40(3): 90-103.

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