

Human CD34 Protein, Ultra Low Endotoxin

Cat. No. CD3-HM134-UL

Description

Source	Recombinant Human CD34 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser32-Thr290.
Accession	P28906-1
Molecular Weight	The protein has a predicted MW of 28.6 kDa. Due to glycosylation, the protein migrates to 90-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

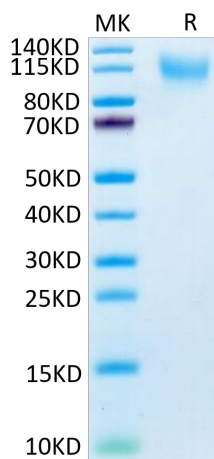
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD34 is a transmembrane phosphoglycoprotein, first identified on hematopoietic stem and progenitor cells. Clinically, it is associated with the selection and enrichment of hematopoietic stem cells for bone marrow transplants. Due to these historical and clinical associations, CD34 expression is almost ubiquitously related to hematopoietic cells, and it is a common misconception that CD34-positive (CD34(+)) cells in nonhematopoietic samples represent hematopoietic contamination.

Assay Data

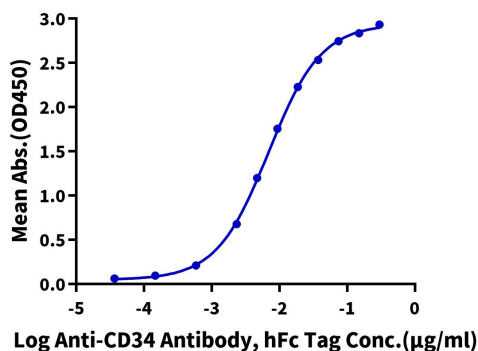
Bis-Tris PAGE



Human CD34 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

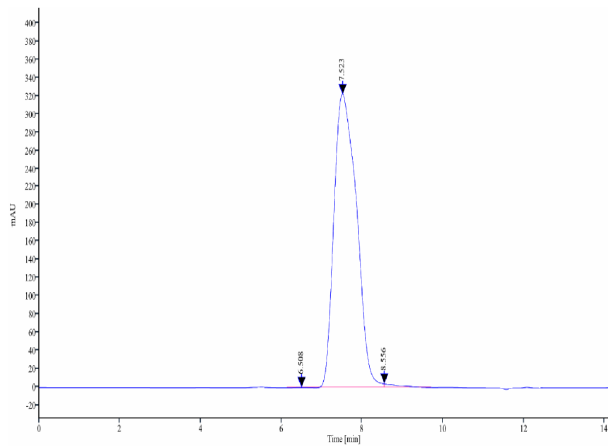
Human CD34, His Tag ELISA
0.1µg Human CD34, His Tag Per Well



Immobilized Human CD34, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD34 Antibody, hFc Tag with the EC50 of 6.9ng/ml determined by ELISA.

Assay Data

SEC-HPLC



The purity of Human CD34 is greater than 95% as determined by SEC-HPLC.