

CD34 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	CD34 molecule
Protein Construction:	Ser32-Thr290
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P28906-1
Molecular Weight:	28.6 kDa (Predicted); 90-130 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human CD34, His Tag at 0.5 µg/ml (100 µl/Well) on the plate. Dose response curve for Anti-CD34 Antibody, hFc Tag with the EC50 of 19.9 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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