**General Information**

**Gene Name Synonym:**
CD34

**Protein Construction:**
A DNA sequence encoding the rat CD34 (B1PLB1) (Met1-Thr291) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

**Source:** Rat

**Expression Host:** HEK293 Cells

**QC Testing**

**Purity:** > 80 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per μg of the protein as determined by the LAL method

**Stability:**
Samples are stable for up to twelve months from date of receipt at -70 ℃

**Predicted N terminal:** Glu 37

**Molecular Mass:**
The recombinant rat CD34/Fc is a disulfide-linked homodimer. The reduced monomer comprises 496 amino acids and has a predicted molecular mass of 54.5 kDa. The apparent molecular mass of the protein is approximately 112 kDa in SDS-PAGE under reducing conditions.

**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 ℃ to -80 ℃ 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.

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**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 hematopoietic progenitors and to classify acute and chronic leukemias.

**References**