## PRODUCT INFORMATION

## Expression system

Baculovirus

## Domain

32-290aa

## UniProt No.

P28906
NCBI Accession No.
NP_001764.1

## Alternative Names

Hematopoietic progenitor cell antigen CD34 isoform b, CD34

## PRODUCT SPECIFICATION

## Molecular Weight

28.6 kDa (268aa)

## Concentration

$0.25 \mathrm{mg} / \mathrm{ml}$ (determined by BCA assay)

## Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10\% glycerol

## Purity

> 95\% by SDS-PAGE
Endotoxin level
$<1$ EU per lug of protein (determined by LAL method)

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

CD34, also known as hematopoietic progenitor cell antigen CD34 isoform $b$, is a member of a family of singlepass transmembrane sialomucin proteins. It is adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. This protein could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to

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## Recombinant human CD34 protein

Catalog Number: ATGP3447
lectins expressed by stromal cells or other marrow components. Recombinant human CD34, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADL>SLDNNGT ATPELPTQGT FSNVSTNVSY QETTTPSTLG STSLHPVSQH GNEATTNITE TTVKFTSTSV ITSVYGNTNS SVQSQTSVIS TVFTTPANVS TPETTLKPSL SPGNVSDLST TSTSLATSPT KPYTSSSPIL SDIKAEIKCS GIREVKLTQG ICLEQNKTSS CAEFKKDRGE GLARVLCGEE QADADAGAQV CSLLLAQSEV RPQCLLLVLA NRTEISSKLQ LMKKHQSDLK KLGILDFTEQ DVASHQSYSQ KT<HHHHHH>

## General References

Nielsen JS., et al. (2009) Microcirculation. 16:487-496.
Mastrandrea F., et al. (2008) Eur Ann Allergy Clin Immunol. 40:90-103.

## DATA

## SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

