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 0.25mg/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 1ug of protein (determined by LAL method)

Tag His-Tag

Application SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C 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



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

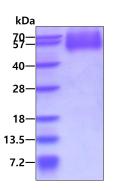
<ADL>SLDNNGT ATPELPTQGT FSNVSTNVSY QETTTPSTLG STSLHPVSQH GNEATTNITE TTVKFTSTSV ITSVYGNTNS SVQSQTSVIS TVFTTPANVS TPETTLKPSL SPGNVSDLST TSTSLATSPT KPYTSSSPIL SDIKAEIKCS GIREVKLTQG ICLEQNKTSS CAEFKKDRGE GLARVLCGEE QADADAGAQV CSLLLAQSEV RPQCLLLVLA NRTEISSKLQ LMKKHQSDLK KLGILDFTEQ DVASHQSYSQ KT<HHHHHH>

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.