

For Research Use Only

LE/AF Purified Rabbit Anti-Human CD34 Antibody

Catalog Number: BK00003



Basic Information

Catalog Number:

BK00003

Size:

5mg, Concentration: 3 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC039146

GeneID (NCBI):

947

UNIPROT ID:

P28906

Full Name:

CD34 molecule

Calculated MW:

41 kDa

Purification Method:

Protein A purification

CloneNo.:

242069A6

Recommended Dilutions:

IHC: 1:1500-1:6000

FC: 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

IHC, FC

Species Specificity:

human

Positive Controls:

IHC : human placenta tissue,

FC : Transfected CHO cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CD34 is a 105- to 120-kDa glycoprophosphoprotein expressed on the majority of hematopoietic stem/progenitor cells, bone marrow stromal cells, capillary endothelial cells, embryonic fibroblasts, and some nerve tissue. CD34 is a commonly used marker for identifying human hematopoietic stem/progenitor cells and mediates cell adhesion and lymphocyte homing by binding L-selectin and E-selectin ligands. CD34 is also one of the best negative selection markers for characterizing and/or isolating human MSCs from bone marrow and other sources. Along with other positive selection markers (such as CD29, CD44, CD90, CD105 and CD166), negative selection markers (such as CD34 and CD45) are used for MSC identification.

Storage

Storage:

For long-term storage, store at -80°C. Avoid repeated freeze-thaw cycles. For short-term use, store at 2-8°C for up to 2 weeks.

Storage Buffer:

Sterile PBS, pH7.3

*** 20ul sizes contain 0.1% BSA

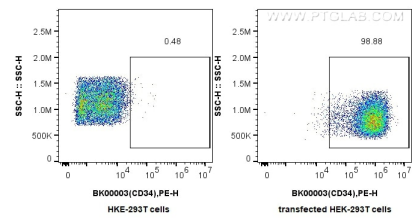
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

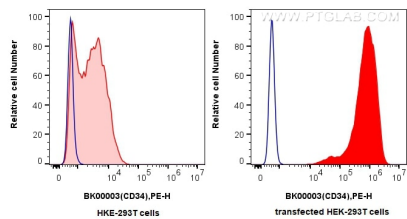
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

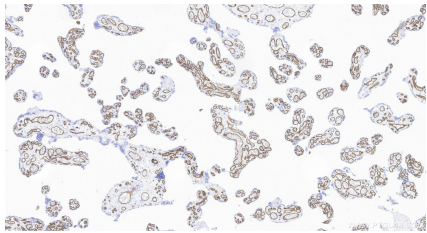
Selected Validation Data



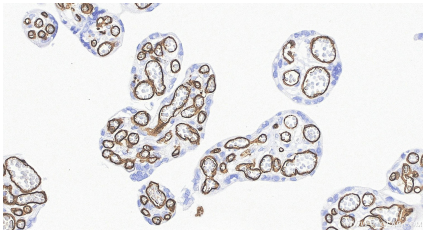
1x10⁶ HEK-293T cells (left) or CD34-transfected HEK-293T cells (right) were surface stained with 0.25 ug LE/AF Purified Rabbit Anti-Human CD34 Antibody (BK00003, Clone: 242069A6) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



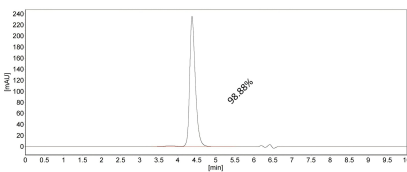
1x10⁶ HEK-293T cells (left) or CD34-transfected HEK-293T cells (right) were surface stained with 0.25 ug LE/AF Purified Rabbit Anti-Human CD34 Antibody (BK00003, Clone: 242069A6) (red) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.



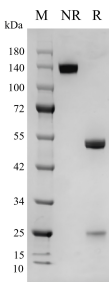
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using BK00003 (CD34 antibody) at dilution of 1:3000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



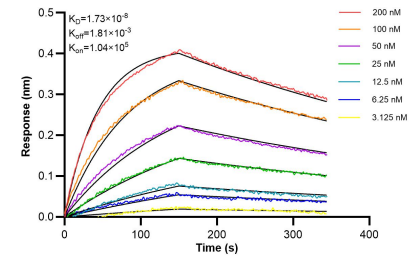
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using BK00003 (CD34 antibody) at dilution of 1:3000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



The purity of Human CD34 Recombinant monoclonal antibody (Cat. No. BK00003) was greater than 95% as determined by SEC-HPLC.



Purity of Anti-Human CD34 Recombinant Antibody, Functional Grade (BK00003) was determined by SDS-PAGE. The antibody was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Biolayer interferometry (BLI) kinetic assays of BK00003 against Human CD34 were performed. The affinity constant is 17.3 nM.