

Human CD34 antibody

Catalog Number: ATGA0497

PRODUCT INFORMATION

Catalog number

ATGA0497

Clone No.

AT3B6

Product type

Monoclonal Antibody

UnitProt No.

P28906

NCBI Accession No.

NP_001764

Alternative Names

Hematopoietic progenitor cell antigen CD34 isoform b, CD34

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human CD34 (32-290aa) purified from Baculovirus.

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, FACS

Usage

The antibody has been tested by ELISA, Western blot analysis and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

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 single-pass 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.

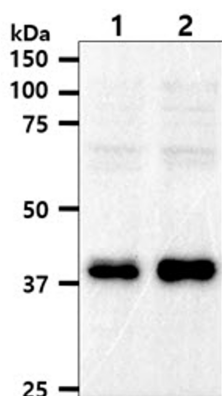
General References

Nielsen JS., et al. (2009) Microcirculation. 16: 487-496.

Mastrandrea F., et al. (2008) Eur Ann Allergy Clin Immunol. 40: 90-103.

DATA

Western blot analysis (WB)

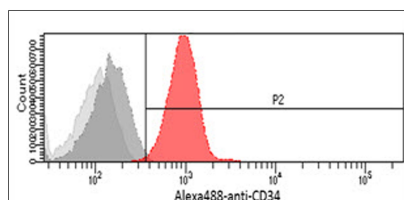


The cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CD34 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate

Lane 2.: 293T cell lysate

Flow cytometry (FACS)



Flow cytometry analysis of CD34 in KG1 cells. The cell was stained with ATGA0497 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).