

Biotin Rabbit anti-Human CD34 mAb

Catalog No.: A28287

Basic Information

Observed MW

Refer to figures

Calculated MW

35 kDa/41 kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC67795

Conjugate

Biotin

Recommended Dilutions

FC 5 μ l per 10^6 cells in
100 μ l volume

Background

CD34 is a type I transmembrane glycosylated phosphoprotein expressed by hematopoietic stem/progenitor cells (HSPCs), vascular endothelial cells, and some fibroblastic cells. For many years, CD34 expression has been utilized as a key marker for identifying and isolating hematopoietic stem cells. Upon stimulation with cytokines or growth factors, CD34+ hematopoietic stem cells expand and differentiate into various lympho-hematopoietic lineages, subsequently losing CD34 expression during this process. However, recent studies from different laboratories have presented findings that contradict this conventional paradigm. The extracellular domain of CD34 exhibits homology with CD43, a protein implicated in intercellular adhesion, and CD34 itself has been demonstrated to function as a negative regulator of cell adhesion. CD34 interacts with CrkL but not with CrkII. CrkII is a substrate for protein kinase C (PKC), and PKC activation is coupled to the surface expression of CD34.

Immunogen Information

Gene ID

947

Swiss Prot

P28906

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

CD34;CD34 molecule;GIG3

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

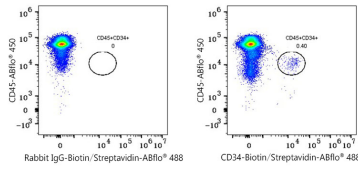
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 Human PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD45 mAb (A25195, 5 μ l/Test) and Biotin Rabbit IgG isotype control (A25626, 5 μ l/Test, left) or Biotin Rabbit anti-Human CD34 mAb (A28287, 5 μ l/Test, right), followed by ABflo® 488 Streptavidin staining. Cells in the lymphocyte gate were used for analysis.